RESULTS

OF

OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

MERIDIAN CIRCLE

AT THE

GOVERNMENT OBSERVATORY, MADRAS

IN THE YEARS 1871, 1872, AND 1873

UNDER THE DIRECTION OF

THE LATE NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

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OFFICIATING GOVERNMENT ASTRONOMER AT MADRAS

PUBLISHED BY ORDER OF THE GOVERNMENT OF MADRAS

MADRAS

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1892

CONTENTS.

	Page
Introduction	I
Instrumental Corrections adopted in 1871	III
Instrumental Corrections adopted in 1872	VII
Instrumental Corrections adopted in 1873	XI
Corrections to the Nautical Almanac Stars in the three years	XV
Errata	XIX
Separate Results of Observations in 1871	1
Mean Positions of Stars for 1871 January 1st	35
Separate Results of Observations in 1872	67
Mean Positions of Stars for 1872 January 1st	121
Separate Results of Observations in 1873	177
Mean Positions of Stars for 1873 January 1st	221
Distribution List of Madras Astronomical Observations	263

INTRODUCTION.

The observations of fixed stars made with the Meridian Circle in the years 1871, 1872, and 1873 are given in this volume. They were made by the same two observers as before, C. Ragoonatha Chary and T. Moothoosawmy Pillay. The methods of reduction are exactly the same as those employed in the preceding years. The only change to which reference has to be made is with regard to the proper motions given in the tables of Mean Positions. These have, in the present volume, been taken from Auwers' *Neue Reduction der Bradley'schen Beobachtungen* except in a few cases which are indicated in the notes.

The publication of the present volume has been greatly delayed by the illness and death of the astronomer under whose care the observations were made. Robert Norman Pogson was already well known as an ardent and skilful astronomer when, in 1861, he arrived in Madras to take charge of the Government Observatory there. During the following thirty years he pursued his work with characteristic energy and success without taking leave for a single day. Hampered as he was in various ways, but specially as regards assistants and facilities for publication, the greater part of his observations unfortunately remain unpublished. Of his own personal work the most valuable, as it was the most laborious, was probably his *Atlas of Telescopic variable Stars* which was nearly completed when he laid it aside to take up the publication of the present work. It is to be hoped that his nephew, to whose care his papers on this subject have been entrusted, will find a means of completing and publishing the work at an early date.

Mr. Pogson's interest in astronomy never flagged and even after the doctors had told him that he had only a short time to live he devoted all the little strength he had to pushing on his work and so arranging it that others might take it up. By his death astronomy lost one of her most devoted disciples—an observer of remarkable skill and one whose knowledge was full and accurate—while those who knew him well lost a true friend on whom they could alway depend and one ever willing to help them to master what had been to him a life-long study and a life-long source of pleasure.

At the time of his death only 24 pages of this volume were in type, but most of the MS. for 1871 was nearly ready for the press. In continuing the work I have followed as nearly as I could on the old lines, retaining all the checks which Mr. Pogson had found necessary and the need of which has now been amply confirmed by my own experience.

In addition to the meridian observations dealt with in this volume there were made during the years 1871 and 1872, 10 meridian observations of the Sun, 76 of the Moon, 43 of Mars, and 41 of asteroids.

C. M. S.

Instrumental Corrections adopted in 1871.

Date.		Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
			″	″	s	s	s	s	
Jan.	2	R	− 5·8	− 0·3	+ 0·17	+ 0·16	0·00	+ 0·02	
	4	,,	− 5·4	− 0·3	+ 0·18	+ 0·13	− 0·02	+ 0·01	
	5	,,	− 5·0	− 0·3	+ 0·13	+ 0·11	− 0·03	0·00	
	6	,,	− 4·9	− 0·3	+ 0·14	+ 0·15	0·00	0·00	
	7	,,	− 6·4	− 0·3	+ 0·16	+ 0·14	+ 0·01	− 0·01	
	9	,,	− 6·5	− 0·3	+ 0·07	+ 0·06	− 0·04	− 0·02	
	11	,,	− 6·8	− 0·3	− 0·10	+ 0·14	− 0·02	− 0·03	
	14	,,	− 7·0	− 0·3	+ 0·24	+ 0·13	− 0·03	− 0·04	51 Cephei and ν Orionis.
	17	,,	− 6·7	− 0·3	+ 0·30	+ 0·18	− 0·05	− 0·04	
	20	,,	− 7·8	− 0·3	+ 0·31	+ 0·17	− 0·05	− 0·05	51 Cephei and δ Urs. Min.
	23	M	− 9·3	0·0	+ 0·14	+ 0·20	− 0·03	+ 0·02	
	25	,,	− 8·4	0·0	+ 0·10	+ 0·23	+ 0·02	+ 0·07	51 Cephei and ε Urs. Min.
	28	,,	− 10·4	0·0	+ 0·16	+ 0·21	0·00	+ 0·03	49 and 131 R. P. L.
	31	,,	− 9·5	0·0	+ 0·10	+ 0·22	+ 0·01	+ 0·03	49 and 131 R. P. L.
Feb.	1	,,	− 10·6	0·0	+ 0·10	+ 0·19	− 0·03	+ 0·02	
	2	,,	− 10·6	0·0	+ 0·10	+ 0·20	− 0·03	+ 0·02	49 R. P. L. and λ Urs. Min.
	3	,,	− 9·6	0·0	+ 0·15	+ 0·20	0·00	+ 0·03	
	4	,,	− 10·1	0·0	− 0·17	+ 0·21	+ 0·01	+ 0·04	η Cancri and δ Urs. Min.
	6	,,	− 10·2	0·0	+ 0·23	+ 0·24	− 0·01	+ 0·02	
	7	,,	− 9·4	0·0	+ 0·22	+ 0·19	− 0·02	0·00	
	8	,,	− 10·1	0·0	+ 0·15	+ 0·22	0·00	− 0·01	72 and 150 R. P. L.
	13	,,	− 10·2	0·0	+ 0·29	+ 0·29	+ 0·01	+ 0·04	43 R. P. L. and δ Urs. Min.
	16	,,	− 10·3	0·0	+ 0·41	+ 0·31	+ 0·02	+ 0·03	51 Cephei and δ Urs. Min.
	18	,,	− 9·9	0·0	+ 0·44	+ 0·36	− 0·01	+ 0·03	
	21	,,	− 11·0	0·0	+ 0·43	+ 0·42	+ 0·04	+ 0·04	51 Cephei and δ Urs. Min.
	24	R	− 10·3	− 0·3	+ 0·44	+ 0·28	+ 0·06	+ 0·11	51 Cephei and ε Can. Maj.
	27	,,	...	− 0·3	+ 0·52	+ 0·33	+ 0·06	+ 0·11	
Mar.	2	,,	− 9·2	− 0·3	+ 0·64	+ 0·39	+ 0·05	+ 0·11	
	3	,,	− 9·3	− 0·3	+ 0·59	+ 0·36	+ 0·06	+ 0·11	
	4	,,	− 9·5	− 0·3	+ 0·50	+ 0·33	+ 0·04	+ 0·11	
	6	,,	− 9·3	− 0·3	+ 0·50	+ 0·32	+ 0·01	+ 0·11	
	7	,,	− 10·3	− 0·3	+ 0·52	+ 0·32	+ 0·03	+ 0·11	
	8	,,	− 9·2	− 0·3	+ 0·45	+ 0·34	+ 0·03	+ 0·11	γ^1 Leonis and Polaris.
	9	,,	− 9·1	− 0·3	+ 0·37	+ 0·33	+ 0·04	+ 0·11	
	10	,,	− 9·4	− 0·3	+ 0·37	+ 0·33	+ 0·04	+ 0·12	
	11	,,	− 9·8	− 0·3	+ 0·39	+ 0·29	+ 0·04	+ 0·12	
	13	,,	− 9·3	− 0·3	+ 0·48	+ 0·28	+ 0·04	+ 0·13	γ^1 Leonis and Polaris.
	14	,,	− 10·0	− 0·3	+ 0·54	+ 0·29	+ 0·04	+ 0·12	
	15	,,	− 9·5	− 0·3	+ 0·59	+ 0·29	+ 0·02	+ 0·11	
	16	,,	− 9·8	− 0·3	+ 0·59	+ 0·32	+ 0·02	+ 0·10	6 Cancri and λ Urs. Min.
	17	,,	− 9·7	− 0·3	+ 0·61	+ 0·34	+ 0·03	+ 0·10	
	18	,,	− 9·6	− 0·3	+ 0·69	+ 0·35	+ 0·03	+ 0·10	
	20	,,	− 9·6	− 0·3	+ 0·63	+ 0·35	+ 0·01	+ 0·10	
	21	M	− 10·1	− 0·5	+ 0·60	+ 0·34	− 0·01	+ 0·10	
	22	,,	− 10·2	− 0·5	+ 0·57	+ 0·34	+ 0·03	+ 0·10	
	23	,,	− 9·7	− 0·5	+ 0·56	+ 0·34	+ 0·01	+ 0·09	79 and 150 R. P. L.
	24	,,	− 9·7	− 0·5	+ 0·59	+ 0·34	0·00	+ 0·08	
	25	,,	− 10·0	− 0·5	+ 0·61	+ 0·35	− 0·01	+ 0·07	
	27	R	− 9·5	− 0·3	+ 0·54	+ 0·36	+ 0·04	+ 0·06	
	28	,,	− 9·3	− 0·3	+ 0·60	+ 0·38	+ 0·05	+ 0·05	
	29	,,	− 9·2	− 0·3	+ 0·65	+ 0·37	+ 0·03	+ 0·04	
	30	,,	− 9·1	− 0·3	+ 0·56	+ 0·36	0·00	+ 0·03	
	31	,,	− 9·4	− 0·3	+ 0·52	+ 0·39	+ 0·02	+ 0·03	γ^1 Leonis and 150 R. P. L.
Apl.	1	,,	− 9·2	− 0·3	+ 0·58	+ 0·42	+ 0·04	+ 0·04	
	3	,,	− 9·2	− 0·3	+ 0·59	+ 0·39	+ 0·03	+ 0·04	
	4	,,	− 9·0	− 0·3	+ 0·54	+ 0·36	+ 0·03	+ 0·04	γ^1 Leonis and 150 R. P. L.
	5	,,	− 9·2	− 0·3	+ 0·44	+ 0·36	+ 0·04	+ 0·04	

Jan. 3.—The north and south collimators moved from their rooms outside and placed on piers built inside the Transit-room, bringing their object glasses about 4 ft. 9 in. from that of the Meridian Circle. First used in their new positions on Jan. 5.

4.—The corrections interpolated pending adjustment of the collimators.

Feb. 27.—The corrections not observed but interpolated.

Instrumental Corrections adopted in 1871.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
April 6	R	− 8·7	− 0·3	+ 0·46	+ 0·46	+ 0·05	+ 0·05	
8	,,	− 8·8	− 0·3	+ 0·56	+ 0·44	+ 0·04	+ 0·05	
10	,,	− 8·6	− 0·3	+ 0·56	+ 0·44	+ 0·03	+ 0·06	
11	,,	− 8·7	− 0·3	+ 0·57	+ 0·39	+ 0·02	+ 0·06	
12	,,	− 8·0	− 0·3	+ 0·51	+ 0·41	0·00	+ 0·06	δ Leonis and Polaris.
13	,,	− 8·0	− 0·3	+ 0·47	+ 0·42	+ 0·01	+ 0·07	
14	,,	− 7·9	− 0·3	+ 0·54	+ 0·42	+ 0·02	+ 0·07	
15	,,	− 7·7	− 0·3	+ 0·56	+ 0·42	+ 0·03	+ 0·08	
17	,,	− 7·8	− 0·3	+ 0·48	+ 0·44	+ 0·02	+ 0·09	
18	,,	− 7·7	− 0·3	+ 0·52	+ 0·45	+ 0·03	+ 0·10	99 R. P. L. and Polaris.
19	,,	− 7·6	− 0·3	+ 0·43	+ 0·44	+ 0·03	+ 0·11	
20	,,	− 7·2	− 0·3	+ 0·18	+ 0·42	+ 0·02	+ 0·11	
21	M	− 7·9	− 0·2	+ 0·23	+ 0·47	+ 0·01	+ 0·12	η Urs. Maj. and Polaris.
22	,,	− 8·3	− 0·2	+ 0·39	+ 0·46	− 0·01	+ 0·12	
24	,,	− 8·0	− 0·2	+ 0·33	+ 0·48	− 0·02	+ 0·11	
25	,,	− 8·4	− 0·2	+ 0·32	+ 0·51	+ 0·01	+ 0·11	η Urs. Maj. and Polaris.
26	,,	− 8·6	− 0·2	+ 0·32	+ 0·51	+ 0·03	+ 0·09	
27	,,	− 8·1	− 0·2	+ 0·43	+ 0·55	+ 0·04	+ 0·08	
28	,,	− 8·1	− 0·2	+ 0·49	+ 0·47	− 0·02	+ 0·06	
29	,,	− 8·0	− 0·2	+ 0·41	+ 0·48	− 0·02	+ 0·05	δ Leonis and Polaris.
May 1	,,	− 8·2	− 0·2	+ 0·45	+ 0·48	+ 0·01	+ 0·09	
2	,,	− 7·7	− 0·2	+ 0·47	+ 0·50	+ 0·02	+ 0·11	
3	,,	− 7·8	− 0·2	+ 0·49	+ 0·50	+ 0·01	+ 0·13	δ Leonis and Polaris.
5	,,	− 8·1	− 0·2	+ 0·54	+ 0·50	0·00	+ 0·12	
6	,,	− 7·5	− 0·2	+ 0·54	+ 0·49	− 0·01	+ 0·12	
8	,,	− 8·0	− 0·2	+ 0·43	+ 0·49	− 0·01	+ 0·12	
11	,,	− 8·7	− 0·2	+ 0·42	+ 0·52	0·00	+ 0·11	12 Can. Ven. and Polaris.
13	,,	− 8·4	− 0·2	+ 0·43	+ 0·53	0·00	+ 0·15	99 R.P. L. and Polaris.
19	,,	− 8·3	− 0·2	+ 0·56	+ 0·58	+ 0·06	+ 0·17	
22	,,	− 8·5	− 0·2	+ 0·63	+ 0·59	+ 0·06	+ 0·18	103 R. P. L. and Polaris.
25	,,	− 8·0	− 0·2	+ 0·56	+ 0·53	− 0·01	+ 0·12	ζ Virginis and Polaris.
26	,,	− 8·0	− 0·2	+ 0·63	+ 0·55	+ 0·03	+ 0·14	
27	,,	− 7·6	− 0·2	+ 0·74	+ 0·51	+ 0·01	+ 0·16	99 R. P. L. and Polaris.
29	,,	− 7·9	− 0·2	+ 0·74	+ 0·48	− 0·01	+ 0·13	
30	,,	− 7·9	− 0·2	+ 0·71	+ 0·51	+ 0·01	+ 0·12	103 R. P. L. and Polaris.
31	,,	− 7·7	− 0·2	+ 0·70	+ 0·49	− 0·01	+ 0·10	
June 1	,,	− 7·5	− 0·2	+ 0·68	+ 0·50	0·00	+ 0·08	
2	,,	− 7·4	− 0·2	+ 0·68	+ 0·52	+ 0·01	+ 0·06	
3	,,	− 7·1	− 0·2	+ 0·63	+ 0·49	0·00	+ 0·04	
5	,,	− 6·3	− 0·2	+ 0·40	+ 0·45	− 0·02	+ 0·03	
6	,,	− 7·2	− 0·2	+ 0·54	+ 0·48	+ 0·02	+ 0·00	
7	,,	− 7·4	− 0·2	+ 0·71	+ 0·44	0·00	+ 0·03	
8	,,	− 7·2	− 0·2	+ 0·69	+ 0·45	+ 0·01	+ 0·05	116 R. P. L. and α^2 Libræ.
9	,,	− 7·2	− 0·2	+ 0·62	+ 0·45	− 0·01	+ 0·04	
13	,,	− 7·0	− 0·2	+ 0·62	+ 0·53	+ 0·06	0·00	
14	,,	− 7·5	− 0·2	+ 0·60	+ 0·56	+ 0·07	+ 0·01	
15	,,	− 7·5	− 0·2	+ 0·59	+ 0·56	+ 0·06	+ 0·02	
20	R	− 7·4	− 0·5	+ 0·67	+ 0·51	+ 0·07	+ 0·06	
28	M	− 7·6	− 0·2	+ 0·74	+ 0·03	+ 0·02	+ 0·14	
29	R	− 7·2	− 0·5	+ 0·74	− 0·04	+ 0·05	+ 0·15	ε Urs. Min. and Antares.
30	,,	− 7·0	− 0·5	+ 0·73	− 0·03	+ 0·05	+ 0·15	
July 4	,,	− 7·2	− 0·5	+ 0·70	+ 0 02	+ 0·06	+ 0·15	ζ Herculis and 51 Cephei.
5	,,	− 7·8	− 0·5	+ 0·76	− 0·02	+ 0·04	+ 0·14	
6	,,	− 7·5	− 0·5	+ 0·78	− 0·02	+ 0·07	+ 0·14	
7	,,	− 7·1	− 0·5	+ 0·73	− 0·02	+ 0·07	+ 0·13	δ Urs. Min. and Antares.
10	,,	− 9·3	− 0·5	+ 0·74	− 0·02	+ 0·07	+ 0·13	
13	,,	− 6·3	− 0·5	+ 0·72	− 0·01	+ 0·06	+ 0·14	

June 27.—The inclination correction adjusted and the circle divisions cleaned. The instrument painted white during the previous week.

Instrumental Corrections adopted in 1871.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
July 14	R	− 6·0	− 0·5	+ 0·71	− 0·02	+ 0·06	+ 0·14		
21	,,	− 2·1	− 0·5	+ 0·68	− 0·12	+ 0·08	+ 0·15		
22	M	− 1·9	− 0·2	− 0·45	− 0·11	+ 0·06	+ 0·15		
24	,,	− 1·8	− 0·2	− 0·45	− 0·14	+ 0·04	+ 0·16		
25	,,	− 0·9	− 0·2	− 0·42	− 0·15	+ 0·04	+ 0·16	ε & δ Urs. Min. and 51 Cep.	
26	,,	− 1·5	− 0·2	− 0·36	− 0·18	+ 0·04	+ 0·16	δ Urs. Min. & κ Ophiuchi.	
27	,,	− 1·8	− 0·2	− 0·39	− 0·16	+ 0·05	+ 0·10	δ Urs. Min. & ρ Capricorni.	
28	,,	− 1·7	− 0·2	− 0·40	− 0·11	+ 0·06	+ 0·18		
29	,,	− 1·5	− 0·2	− 0·35	− 0·13	+ 0·07	+ 0·16		
31	,,	− 1·8	− 0·2	− 0·39	− 0·13	+ 0·06	+ 0·12		
Aug. 1	,,	− 2·0	− 0·2	− 0·47	− 0·14	+ 0·05	+ 0·10	λ Urs. Min. & h^2 Sagittarii	
2	,,	− 2·0	− 0·2	− 0·48	− 0·15	+ 0·03	+ 0·10		
3	,,	− 1·9	− 0·2	− 0·38	− 0·13	+ 0·05	+ 0·10		
4	,,	− 2·5	− 0·2	− 0·41	− 0·18	+ 0·01	+ 0·11		
5	,,	− 2·5	− 0·2	− 0·44	− 0·13	+ 0·06	+ 0·11		
7	,,	− 3·2	− 0·2	− 0·36	− 0·16	+ 0·03	+ 0·11		
9	,,	− 4·2	− 0·2	− 0·35	− 0·16	+ 0·01	+ 0·12		
11	,,	− 3·8	− 0·2	− 0·39	− 0·16	0·00	+ 0·12		
12	,,	− 4·1	− 0·2	− 0·41	− 0·11	+ 0·04	+ 0·13		
14	,,	− 4·5	− 0·2	− 0·42	− 0·10	+ 0·05	+ 0·13	δ Urs. Min. & 51 Cephei.	
15	,,	− 4·9	− 0·2	− 0·40	− 0·11	+ 0·04	+ 0·12		
17	R	− 4·5	− 0·4	− 0·41	− 0·14	+ 0·02	+ 0·10	δ Urs. Min. & 51 Cephei.	
18	,,	− 4·9	− 0·4	− 0·40	− 0·15	+ 0·02	+ 0·10		
19	,,	− 5·1	− 0·4	− 0·42	− 0·12	+ 0·01	+ 0·10		
21	,,	− 5·2	− 0·4	− 0·31	− 0·11	+ 0·02	+ 0·09		
22	,,	− 4·9	− 0·4	− 0·33	− 0·11	+ 0·03	+ 0·09		
23	,,	− 4·7	− 0·4	− 0·34	− 0·13	+ 0·02	+ 0·09	λ Urs. Min. & ρ Capricorni.	
24	,,	− 5·5	− 0·4	− 0·33	− 0·17	+ 0·01	+ 0·14	α Cygni and 51 Cephei.	
30	,,	− 6·1	− 0·4	− 0·58	− 0·16	+ 0·01	+ 0·11	δ Urs. Min & μ Sagittarii.	
Sep. 1	,,	− 5·9	− 0·4	− 0·54	− 0·17	+ 0·01	+ 0·15 11		0·11
2	,,	− 6·1	− 0·4	− 0·40	− 0·16	0·00	+ 0·20 10		0·10
4	,,	− 6·8	− 0·4	− 0·21	− 0·18	− 0·01	+ 0·28 09	24 (Hev.) Cep. & 60 R. P. L	0·09
8	,,	− 6·0	− 0·4	− 0·29	− 0·17	+ 0·01	+ 0·24 08		0·08
11	,,	− 8·1	− 0·4	− 0·32	− 0·16	+ 0·01	+ 0·29 07		0·07
13	,,	− 7·2	− 0·4	− 0·35	− 0·12	+ 0·06	+ 0·18 07	λ Urs. Min., 24 Cephei, and	0·07
14	,,	− 6·9	− 0·4	− 0·37	− 0·14	+ 0·06	+ 0·12 07	α Pavonis.	0·07
15	M	− 7·5	− 0·3	− 0·36	− 0·13	+ 0·03	+ 0·06	143 R. P. L. & β Aquarii.	
16	,,	− 7·6	− 0·3	− 0·39	− 0·10	+ 0·01	+ 0·07		
18	,,	− 5·5	− 0·3	− 0·43	− 0·13	+ 0·03	+ 0·09		
19	,,	− 4·6	− 0·3	− 0·39	− 0·16	+ 0·02	+ 0·10		
20	,,	− 4·2	− 0·3	− 0·36	− 0·12	+ 0·06	+ 0·11		
23	,,	− 3·8	− 0·3	− 0·27	− 0·15	+ 0·03	+ 0·13		
27	,,	− 2·5	− 0·3	− 0·39	− 0·16	+ 0·04	+ 0·17		
28	,,	− 2·0	− 0·3	− 0·31	− 0·22	+ 0·01	+ 0·18		
29	,,	− 0·7	− 0·3	− 0·37	− 0·34	0·00	+ 0·19	150 and 70 R. P. L.	
30	,,	− 0·2	− 0·3	− 0·44	− 0·33	0·00	+ 0·19		
Oct. 2	,,	− 0·4	− 0·3	− 0·38	− 0·35	+ 0·01	+ 0·19		
3	,,	− 0·3	− 0·3	− 0·38	− 0·28	+ 0·04	+ 0·19	150 and 72 R. P. L.	
4	,,	− 0·8	− 0·3	− 0·24	− 0·24	+ 0·07	+ 0·20		
5	,,	− 0·8	− 0·3	− 0·24	− 0·26	+ 0·03	+ 0·22		
6	,,	− 0·7	− 0·3	− 0·29	− 0·29	+ 0·03	+ 0·23		
7	,,	− 0·4	− 0·3	− 0·33	− 0·27	+ 0·03	+ 0·24		
9	,,	− 1·2	− 0·3	− 0·38	− 0·22	+ 0·05	+ 0·27	Polaris and Achernar.	
11	,,	− 0·9	− 0·3	− 0·39	− 0·18	+ 0·06	+ 0·24		
12	,,	− 1·8	− 0·3	− 0·35	− 0·16	+ 0·12	+ 0·22		
13	,,	− 2·0	− 0·3	− 0·38	− 0·21	+ 0·06	+ 0·20	Polaris and 70 R. P. L.	
14	R	− 2·2	+ 0·1	− 0·47	− 0·25	+ 0·08	+ 0·20		

July 22.—The clock rate adjusted.
Oct. 14.—The index error not observed but only interpolated.

Instrumental Corrections adopted in 1871.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
Oct. 16	R	− 2·3	+ 0·1	− 0·58	− 0·24	+ 0·03	+ 0·19	
19	,,	+ 0·4	+ 0·1	− 0·64	− 0·29	+ 0·08	+ 0·18	
21	,,	+ 1·5	+ 0·1	− 0·66	− 0·39	+ 0·08	+ 0·18	Polaris and 99 R. P. L.
25	M	+ 1·9	− 0·3	− 0·71	− 0·40	+ 0·08	+ 0·21	
26	,,	+ 1·4	− 0·3	− 0·76	− 0·39	+ 0·07	+ 0·21	
27	,,	+ 1·2	− 0·3	− 0·59	− 0·33	+ 0·08	+ 0·22	26 R. P. L. and κ Piscium.
28	R	+ 1·7	+ 0·1	− 0·40	− 0·45	+ 0 03	+ 0·21	
30	,,	+ 1·9	+ 0·1	− 0·65	− 0·45	+ 0·03	+ 0·20	
Nov. 2	,,	+ 2·7	+ 0·1	− 0·68	− 0·54	0·00	+ 0·19	
3	,,	+ 2·4	+ 0·1	− 0·65	− 0·51	0·00	+ 0·18	Polaris and β Coti.
4	,,	+ 2·6	+ 0·1	− 0·70	− 0·50	+ 0·01	+ 0·19	
7	,,	+ 1·4	+ 0·1	− 0·84	− 0·49	+ 0·05	+ 0·21	Polaris and ε Piscium.
10	,,	+ 3·4	+ 0·1	− 0·82	− 0·44	+ 0·10	+ 0·26	
11	,,	+ 2·8	+ 0·1	− 0·80	− 0·45	+ 0·09	+ 0·27	Polaris and 101 R. P. L.
13	,,	+ 2·7	+ 0·1	− 0·76	− 0·34	+ 0·08	+ 0·24	
15	M	+ 2·0	− 0·3	− 0·72	− 0·42	+ 0·03	+ 0·21	
16	,,	+ 1·9	− 0·3	− 0 79	− 0·41	− 0·02	+ 0·20	Polaris and 99 R. P. L.
17	,,	+ 1·9	− 0·3	− 0·82	− 0·30	+ 0·05	+ 0·22	
18	,,	+ 1·9	− 0·3	− 0·79	− 0·30	+ 0·03	+ 0·24	
20	,,	+ 1·7	− 0·3	− 0·96	− 0·34	− 0·02	+ 0·28	
23	,,	− 0·4	− 0·3	− 1·10	− 0·42	+ 0·02	+ 0·34	
24	,,	+ 2·3	− 0·3	− 1·07	− 0·31	+ 0·03	+ 0·36	
25	,,	− 1·0	− 0·3	− 1·09	− 0·35	+ 0·06	+ 0·38	
27	,,	+ 3·1	− 0·3	− 0·98	− 0·12	+ 0·08	+ 0·42	26 and 92 R. P. L.
28	,,	+ 4·1	− 0·3	− 0·97	− 0·14	+ 0·09	+ 0·36	
29	,,	+ 4·6	− 0·3	− 0·98	− 0·21	+ 0·02	+ 0·30	
30	,,	+ 4·6	− 0·3	− 0·96	− 0·27	− 0·02	+ 0·22	
Dec. 1	,,	+ 3·7	− 0·3	− 1·07	− 0·35	− 0·05	+ 0·18	51 Cephei and δ Urs. Min.
2	,,	+ 3·3	− 0·3	− 1·06	− 0·28	+ 0·01	+ 0·17	
4	,,	+ 2·6	− 0·3	− 1·03	− 0·37	− 0·05	+ 0·15	
5	,,	+ 2·3	− 0·3	− 1·09	− 0·32	+ 0·01	+ 0·14	
6	R	+ 2·3	− 0·0	− 1·02	− 0·38	− 0·01	+ 0·13	
7	M	+ 1·7	− 0·3	− 0·94	− 0·36	− 0·03	+ 0·12	
8	,,	+ 1·2	− 0·3	− 0·94	− 0·35	− 0·02	+ 0·11	
9	,,	+ 1·1	− 0·3	− 0·91	− 0·33	− 0·02	+ 0·10	
11	,,	+ 1·5	− 0·3	− 0·96	− 0·34	− 0·03	+ 0·08	Polaris and 99 R. P. L.
12	,,	+ 0·6	− 0·3	− 0·89	− 0·35	− 0·03	+ 0·08	
13	,,	+ 0·3	− 0·3	− 0·89	− 0·34	− 0·03	+ 0·07	
14	,,	+ 0·4	− 0·3	− 1·00	− 0·31	− 0·01	+ 0·07	
15	,,	− 0·8	− 0·3	− 0·96	− 0·30	− 0·01	+ 0·07	Polaris and δ Sculptoris.
16	,,	− 1·1	− 0·3	− 0·92	− 0·29	0·00	+ 0·09	Polaris and 99 R. P. L.
18	R	− 0·5	0·0	− 1·02	− 0·28	+ 0·07	+ 0·13	Polaris and Achernar.
19	,,	− 0·1	0·0	− 1·08	− 0·29	+ 0·04	+ 0·12	
20	,,	− 1·4	0·0	− 1·03	− 0·24	+ 0·09	+ 0·12	
21	,,	− 1·5	0·0	− 0·94	− 0·27	+ 0·07	+ 0·11	
26	,,	− 1·3	0·0	− 0·92	− 0·25	+ 0·08	+ 0·08	
29	M	− 4·5	+ 0·1	− 0·93	− 0·31	0·00	+ 0·06	
31	,,	− 5·5	+ 0·1	− 0·93	− 0·31	0·00	+ 0·05	51 Cephei and 47 Ceti.

Nov. 20 to 23.—Continuous rain and consequent changes of the index and inclination corrections.
Oct. 12.—The object glass taken out and cleaned.

Instrumental Corrections adopted in 1872.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
Jan. 3	M	− 6·2	+ 0·1	− 0·88	− 0·32	0·00	+ 0·03	
4	,,	− 6·8	+ 0·1	− 0·98	− 0·32	0·00	+ 0·03	Polaris and 108 R. P. L.
5	R	− 6·7	0·0	− 1·03	− 0·29	+ 0·06	+ 0·09	
6	,,	− 7·1	0·0	− 0·95	− 0·33	+ 0·04	+ 0·16	51 Cephei and δ Urs. Min.
8	,,	− 6·7	0·0	− 1·14	− 0·30	+ 0·05	+ 0·09	
9	,,	− 7·1	0·0	− 1·07	− 0·34	+ 0·06	+ 0·06	
10	,,	− 7·1	0·0	− 0·92	− 0·32	+ 0·06	+ 0·02	
11	,,	− 7·5	0·0	− 0·94	− 0·38	+ 0·02	− 0·02	51 Cephei and ε Leporis.
12	M	− 8·9	+ 0·1	− 0·97	− 0·40	− 0·01	− 0·01	
13	,,	− 8·8	+ 0·1	− 0·97	− 0·41	0·00	0·00	
15	,,	− 9·0	+ 0·1	− 0·29	− 0·38	+ 0·01	+ 0·02	51 Cephei and ε Urs. Min.
16	,,	− 9·4	+ 0·1	− 0·29	− 0·43	− 0·03	0·00	
17	,,	− 9·7	+ 0·1	− 0·32	− 0·41	− 0·01	− 0·01	51 Cephei and δ Urs. Min.
18	,,	− 10·4	+ 0·1	− 0·39	− 0·46	− 0·04	− 0·01	
19	,,	− 10·2	+ 0·1	− 0·33	− 0·41	0·00	− 0·01	
20	,,	− 10·4	+ 0·1	− 0·31	− 0·40	− 0·01	− 0·01	
22	,,	− 10·5	+ 0·1	− 0·37	− 0·42	− 0·01	− 0·01	
23	,,	− 10·3	+ 0·1	− 0·41	− 0·45	− 0·04	− 0·01	
24	,,	− 8·4	+ 0·1	− 0·38	− 0·38	+ 0·02	− 0·01	
25	,,	− 10·0	+ 0·1	− 0·21	− 0·34	+ 0·01	− 0·01	51 Cephei and λ Urs. Min.
26	,,	− 10·3	+ 0·1	− 0·17	− 0·33	− 0·01	− 0·02	
27	,,	− 10·9	+ 0·1	− 0·17	− 0·37	− 0·02	− 0·04	
29	,,	− 10·9	+ 0·1	− 0·11	− 0·37	− 0·02	− 0·07	
30	,,	− 10·7	+ 0·1	− 0·10	− 0·38	− 0·02	− 0·08	43 R. P. L. and ε Urs. Min.
31	,,	− 11·0	+ 0·1	− 0·12	− 0·33	− 0·01	− 0·10	
Feb. 1	,,	− 10·4	+ 0·1	− 0·04	− 0·28	− 0·03	− 0·12	
2	,,	− 11·2	+ 0·1	− 0·03	− 0·33	− 0·03	− 0·14	
3	,,	− 10·8	+ 0·1	− 0·07	− 0·32	− 0·02	− 0·16	72 R. P. L. and α Leporis.
5	,,	− 10·4	+ 0·1	− 0·24	− 0·33	− 0·02	− 0·04	
6	,,	− 10·0	+ 0·1	− 0·06	− 0·14	+ 0·05	+ 0·03	69 and 131 R. P. L.
7	,,	− 9·6	+ 0·1	+ 0·13	− 0·18	+ 0·03	+ 0·04	
8	R	− 9·8	0·0	+ 0·05	− 0·26	+ 0·03	+ 0·06	
9	,,	− 10·2	0·0	− 0·02	− 0·29	+ 0·04	+ 0·07	60 R. P. L. and ι Argûs.
10	,,	− 9·7	0·0	− 0·12	− 0·24	+ 0·07	+ 0·04	
12	,,	− 9·3	0·0	− 0·10	− 0·26	+ 0·06	+ 0·02	
13	,,	− 10·3	0·0	− 0·07	− 0·30	+ 0·05	+ 0·05	60 R. P. L. and 24 Cephei.
14	,,	− 10·5	0·0	− 0·04	− 0·30	+ 0·07	+ 0·02	
15	,,	− 10·8	0·0	− 0·03	− 0·29	+ 0·05	+ 0·01	
16	,,	− 10·3	0·0	+ 0·03	− 0·30	+ 0·05	+ 0·04	
17	,,	− 10·4	0·0	+ 0·02	− 0·26	+ 0·04	+ 0·07	Castor and λ Urs. Min.
19	,,	− 10·2	0·0	+ 0·08	− 0·27	+ 0·04	+ 0·05	
20	,,	− 10·7	0·0	+ 0·15	− 0·28	+ 0·05	+ 0·04	
21	,,	− 10·4	0·0	+ 0·10	− 0·24	+ 0·05	+ 0·03	60 R. P. L. and λ Urs. Min.
22	,,	− 10·4	0·0	− 0·03	− 0·26	+ 0·04	+ 0·03	
23	,,	− 10·2	0·0	+ 0·01	− 0·27	+ 0·05	+ 0·03	
24	,,	− 10·1	0·0	+ 0·04	− 0·29	+ 0·04	+ 0·03	
26	,,	− 11·0	0·0	− 0·04	− 0·26	+ 0·05	+ 0·02	
28	,,	− 10·4	0·0	− 0·19	− 0·26	+ 0·06	+ 0·02	72 R. P. L. and 15 Argûs.
29	,,	− 11·4	0·0	− 0·88	− 0·30	+ 0·02	+ 0·04	
Mar. 1	,,	− 10·5	0·0	− 1·19	− 0·25	+ 0·05	+ 0·06	
2	,,	− 11·3	0·0	− 0·82	− 0·25	+ 0·05	+ 0·01	72 R. P. L. and η Argûs.
4	,,	− 11·7	0·0	− 0·29	− 0·25	+ 0·05	− 0·09	
5	,,	− 11·6	0·0	− 0·07	− 0·24	+ 0·06	− 0·14	
6	,,	− 11·0	0·0	− 0·01	− 0·25	+ 0·04	− 0·10	60 R. P. L. and 24 Cephei.
7	,,	− 10·9	0·0	+ 0·02	− 0·24	+ 0·05	− 0·08	
8	,,	− 11·2	0·0	+ 0·07	− 0·26	+ 0·04	− 0·05	
9	M	− 11·1	0·0	+ 0·13	− 0·22	+ 0·03	− 0·03	

Jan. 14.—The rate of the transit clock adjusted.
Feb. 6.—Cleaned the vertical wire of the south collimator.

Instrumental Corrections adopted in 1872.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	*s*	*s*	*s*	*s*	
Mar. 11	M	− 11·1	0·0	+ 0·08	− 0·22	0·00	+ 0·02	
12	„	− 11·4	0·0	− 0·01	− 0·15	+ 0·01	+ 0·05	60 and 150 R. P. L.
13	„	− 11·6	0·0	− 0·01	− 0·17	+ 0·06	+ 0·02	
14	„	− 11·6	0·0	− 4·10	− 0·22	+ 0·03	0·00	
15	„	− 11·2	0·0	− 0·16	− 0·20	+ 0·03	− 0·03	
16	„	− 11·6	0·0	− 0·16	− 0·22	+ 0·02	− 0·06	69 R. P. L. & 2 Urs. Min.
18	„	− 11·1	0·0	− 0·33	− 0·25	+ 0·01	− 0·08	
19	„	− 12·2	0·0	− 0·45	− 0·19	+ 0·06	− 0·08	
20	„	− 12·2	0·0	− 0·53	− 0·25	+ 0·04	− 0·09	
21	„	− 11·9	0·0	− 0·57	− 0·23	+ 0·01	− 0·10	89 and 158 R. P. L.
22	„	− 11·5	0·0	− 0·55	− 0·22	+ 0·01	− 0·09	
23	„	− 11·7	0·0	− 0·62	− 0·20	+ 0·03	− 0·08	
25	„	− 11·7	0·0	− 0·72	− 0·17	+ 0·04	− 0·06	
26	„	− 11·3	0·0	− 0·88	− 0·17	− 0·01	− 0·05	
27	„	− 11·3	0·0	− 1·10	− 0·18	− 0·03	− 0·04	111 R. P. L. and Polaris.
30	R	− 11·1	0·0	− 1·28	− 0·19	− 0·02	− 0·02	
Apl. 1	M	− 11·8	0·0	− 1·34	− 0·15	+ 0·02	0·00	
3	„	− 11·4	0·0	− 1·22	− 0·11	+ 0·02	+ 0·01	
4	„	− 11·3	0·0	− 1·28	− 0·13	0·00	+ 0·01	60 and 150 R. P. L.
5	„	− 11·3	0·0	− 1·37	− 0·09	+ 0·03	+ 0·04	
6	„	− 13·3	0·0	− 1·40	− 0·10	+ 0·02	+ 0·06	
8	R	− 11·2	0·0	− 1·45	− 0·06	+ 0·07	+ 0·11	
9	„	− 11·1	0·0	− 1·33	− 0·06	+ 0·07	+ 0·13	99 R. P. L. and Polaris.
10	„	− 11·4	0·0	− 1·31	− 0·08	+ 0·03	+ 0·12	
11	„	− 11·4	0·0	− 1·40	− 0·07	+ 0·04	+ 0·11	
12	„	− 10·7	0·0	− 1·39	− 0·06	+ 0·06	+ 0·11	
13	„	− 10·5	0·0	− 1·39	− 0·09	+ 0·04	+ 0·10	η Urs. Maj. and Polaris.
15	„	− 9·6	0·0	− 1·32	− 0·08	+ 0·05	+ 0·10	
16	„	− 11·0	0·0	− 1·40	− 0·10	+ 0·02	+ 0·10	
17	„	− 10·9	0·0	− 1·42	− 0·08	+ 0·03	+ 0·10	
18	„	− 10·9	0·0	− 1·41	− 0·09	+ 0·04	+ 0·10	
19	„	− 11·3	0·0	− 1·40	− 0·05	+ 0·05	+ 0·10	ρ Leonis and Polaris.
20	„	− 10·7	0·0	− 1·40	− 0·05	+ 0·05	+ 0·09	
22	„	− 10·9	0·0	+ 0·04	− 0·08	+ 0·01	+ 0·08	
23	„	− 10·4	0·0	+ 0·04	− 0·08	+ 0·02	+ 0·08	
24	„	− 10·8	0·0	+ 0·02	− 0·03	+ 0·02	+ 0·07	99 R. P. L. and Polaris.
25	„	− 10·7	0·0	+ 0·02	− 0·02	+ 0·02	+ 0·07	
26	„	− 11·0	0·0	− 0·01	− 0·04	+ 0·03	+ 0·07	
27	„	− 10·1	0·0	− 0·05	− 0·02	+ 0·03	+ 0·06	
May 3	„	− 6·9	0·0	− 0·11	− 0·24	− 0·05	+ 0·05	99 R. P. L. and Polaris.
4	„	− 7·0	0·0	− 0·09	− 0·19	− 0·04	+ 0·06	
6	„	− 5·1	0·0	0·00	− 0·23	− 0·05	+ 0·09	
7	„	− 5·3	0·0	− 0·02	− 0·20	− 0·08	+ 0·11	
8	M	− 5·4	0·0	− 0·07	− 0·17	− 0·05	+ 0·12	
9	„	− 6·0	0·0	− 0·03	− 0·16	− 0·03	+ 0·12	99 R. P. L. and Polaris.
10	„	− 5·0	0·0	+ 0·03	− 0·14	− 0·01	+ 0·12	
11	„	− 5·9	0·0	+ 0·04	− 0·21	− 0·06	+ 0·13	
13	„	− 5·5	0·0	− 0·11	− 0·20	− 0·07	+ 0·14	
14	„	− 5·8	0·0	− 0·19	− 0·13	+ 0·01	+ 0·14	ψ Bōotis and Polaris.
15	„	− 6·4	0·0	− 0·16	− 0·09	+ 0·05	+ 0·16	
16	„	− 6·1	0·0	− 0·06	− 0·15	+ 0·01	+ 0·18	
17	„	− 7·0	0·0	+ 0·08	− 0·12	+ 0·03	+ 0·20	99 R. P. L. and Polaris.
18	„	− 6·8	0·0	+ 0·06	− 0·19	− 0·02	+ 0·17	
20	„	− 7·0	0·0	− 0·08	− 0·16	− 0·01	+ 0·12	
21	„	− 6·8	0·0	− 0·05	− 0·15	− 0·01	+ 0·10	
22	„	− 6·9	0·0	− 0·02	− 0·11	+ 0·03	+ 0·07	92 R. P. L. and Polaris.
23	„	− 7·1	0·0	+ 0·02	− 0·15	− 0·01	+ 0·09	
24	„	− 7·5	0·0	− 0·09	− 0·16	− 0·02	+ 0·11	

March 14.—The transit clock cleaned.
March 15.—Rate of the transit clock adjusted at 7*h* 30*m*.

Instrumental Corrections adopted in 1872.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
		″	″	s	s	s	s	
May 25	M	− 7·3	0·0	− 0·17	− 0·08	+ 0·04	+ 0·13	
27	,,	− 7·5	0·0	− 0·06	− 0·08	+ 0·02	+ 0·16	
29	,,	− 7·6	0·0	− 0·08	− 0·02	+ 0·05	+ 0·20	
31	,,	− 8·0	0·0	− 0·10	+ 0·07	+ 0·09	+ 0·24	
June 1	,,	− 7·6	0·0	− 0·08	+ 0·04	+ 0·07	+ 0·26	99 R. P. L. and Polaris.
3	,,	− 7·6	0·0	− 0·07	+ 0·05	+ 0·09	+ 0·24	
4	,,	− 7·8	0·0	− 0·11	+ 0·05	+ 0·08	+ 0·23	
5	,,	− 7·8	0·0	− 0·09	+ 0·09	+ 0·09	+ 0·22	
7	R	− 7·1	− 0·1	− 0·07	0·00	+ 0·04	+ 0·20	
8	,,	− 6·4	− 0·1	− 0·04	+ 0·02	+ 0·05	+ 0·19	ζ Urs. Min. and 33 R. P. L.
10	,,	− 5·6	− 0·1	+ 0·10	+ 0·04	+ 0·01	+ 0·20	
11	,,	− 7·1	− 0·1	+ 0·07	+ 0·01	+ 0·01	+ 0·20	
12	,,	− 6·7	− 0·1	+ 0·07	0·00	+ 0·01	+ 0·21	
24	,,		− 0·1	+ 0·64	+ 0·05	+ 0·01	+ 0·26	
29	,,	— 9·5	− 0·1	+ 0·72	+ 0·11	+ 0·02	+ 0·27	ε & δ Urs. Min. & Antares.
July 2	,,	− 9·5	− 0·1	+ 0·77	+ 0·15	+ 0·04	+ 0·26	
3	,,	− 9·4	− 0·1	+ 0·55	+ 0·14	+ 0·04	+ 0·25	
4	,,	− 9·0	− 0·1	+ 0·55	+ 0·09	+ 0·02	+ 0·25	
12	M	− 10·1	− 1·0	+ 0·57	+ 0·02	+ 0·01	+ 0·21	
13	,,	− 10·5	− 1·0	+ 0·61	+ 0·06	+ 0·05	+ 0·21	δ Urs. Min. and 43 R.P.L.
15	,,	− 10·9	− 1·0	+ 0·66	+ 0·10	+ 0·05	+ 0·22	
18	,,	− 10·4	− 1·0	+ 0·72	+ 0·03	+ 0·04	+ 0·23	
20	,,	− 11·3	− 1·0	+ 0·75	+ 0·06	+ 0·04	+ 0·24	
25	,,	− 9·8	− 1·0	+ 0·70	+ 0·11	+ 0·06	+ 0·26	
26	,,	− 10·3	− 1·0	+ 0·78	+ 0·10	+ 0·04	+ 0·26	
27	,,	− 9·8	− 1·0	+ 0·84	+ 0·07	+ 0·02	+ 0·27	
30	,,	− 9·5	− 1·0	+ 0·75	+ 0·11	+ 0·02	+ 0·28	δ Urs. Min. & μ^1 Sagittarii.
31	,,	− 9·2	− 1·0	+ 0·80	+ 0·13	+ 0·04	+ 0·29	
Aug. 1	R	− 8·3	− 0·1	+ 0·77	+ 0·07	+ 0·02	+ 0·30	
2	,,	− 8·6	− 0·1	+ 0·69	+ 0·07	+ 0·03	+ 0·31	α Lyræ and 51 Cephei.
5	,,	− 8·4	− 0·1	+ 0·70	+ 0·07	+ 0·04	+ 0·32	
12	,,	− 5·5	− 0·1	+ 0·63	+ 0·01	+ 0·10	+ 0·35	δ Urs. Min. & μ^1 Sagittarii.
15	,,	− 4·5	− 0·1	+ 0·64	+ 0·08	+ 0·03	+ 0·34	
17	,,	− 4·5	− 0·1	+ 0·66	+ 0·08	+ 0·04	+ 0·33	
20	,,	− 3·5	− 0·1	+ 0·62	− 0·08	+ 0·06	+ 0·31	
24	,,	− 4·0	− 0·1	+ 0·58	− 0·02	+ 0·09	+ 0·29	
27	,,	− 4·0	− 0·1	+ 0·50	− 0·01	+ 0·07	+ 0·28	α Lyræ and 51 Cephei.
28	,,	− 4·5	− 0·1	+ 0·46	− 0·10	+ 0·02	+ 0·27	
31	,,	− 5·0	− 0·1	+ 0·51	− 0·08	+ 0·03	+ 0·25	
Sep. 2	M	− 5·8	+ 0·4	+ 0·41	− 0·10	+ 0·02	+ 0·24	
3	,,	− 6·2	+ 0·4	+ 0·46	− 0·09	+ 0·03	+ 0·23	δ Urs. Min. and 72 R. P. L.
4	,,	− 6·2	+ 0·4	+ 0·59	− 0·06	+ 0·04	+ 0·23	+0·25 +0·27
5	,,	− 6·6	+ 0·4	+ 0·48	− 0·12	− 0·01	+ 0·22	
6	,,	− 6·9	+ 0·4	+ 0·36	− 0·08	+ 0·03	+ 0·22	143 and 45 R. P. L. +0·28 +0·29
7	,,	− 6·7	+ 0·4	+ 0·40	− 0·07	+ 0·04	+ 0·24	
9	,,	− 8·7	+ 0·4	+ 0·32	− 0·05	+ 0·05	+ 0·27	+0·30
10	,,	− 7·2	+ 0·4	+ 0·11	− 0·04	+ 0·07	+ 0·29	+0·30
11	,,	− 7·7	+ 0·4	+ 0·10	− 0·02	+ 0·06	+ 0·31	143 and 72 R. P. L.
13	,,	− 7·4	+ 0·4	+ 0·34	− 0·01	+ 0·06	+ 0·31	
17	,,	− 5·2	+ 0·4	+ 0·26	+ 0·02	+ 0·12	+ 0·30	
19	,,	− 4·9	+ 0·4	+ 0·34	+ 0·09	+ 0·08	+ 0·30	
21	,,	− 5·2	+ 0·4	+ 0·37	+ 0·02	+ 0·12	+ 0·30	
27	,,	− 4·9	+ 0·4	+ 0·29	− 0·03	+ 0·09	+ 0·29	
28	,,	− 5·9	+ 0·4	+ 0·32	− 0·05	+ 0·07	+ 0·28	
Oct. 2	R	− 5·7	+ 0·3	+ 0·33	− 0·09	+ 0·01	+ 0·28	

April 22.—The rate of the transit clock adjusted at 10*h*. 15*m*. sid. time.
June 22.—The transit clock line broke at 9·43 sid. time. It was rejoined before the maintaining power had ceased to act.
July 3.—A new silk line supplied to the transit clock. The clock was started again about 13*h*. sid. time.

Instrumental Corrections adopted in 1872.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
Oct. 4	R	− 5·8	+ 0·3	+ 0·32	− 0·11	+ 0·01	+ 0·27	
7	,,	− 6·2	+ 0·3	+ 0·40	− 0·13	− 0·01	+ 0·27	Polaris and 99 R. P. L.
9	,,	− 5·6	+ 0·3	+ 0·32	− 0·12	0·00	+ 0·28	
10	,,	− 5·8	+ 0·3	+ 0·24	− 0·10	0·00	+ 0·29	
14	,,	+ 1·6	+ 0·3	+ 0·29	− 0·27	+ 0·14	+ 0·32	
17	,,	+ 1·6	+ 0·3	+ 0·37	− 0·23	+ 0·07	+ 0·34	
21	,,	+ 1·1	+ 0·3	+ 0·35	− 0·22	+ 0·06	+ 0·37	Polaris and 89 R. P. L.
22	,,	+ 1·4	+ 0·3	+ 0·36	− 0·22	+ 0·04	+ 0·36	
23	,,	+ 1·3	+ 0·3	+ 0·35	− 0·18	+ 0·06	+ 0·35	
25	,,	+ 0·2	+ 0·3	+ 0·30	− 0·25	+ 0·01	+ 0·34	
26	,,	+ 0·5	+ 0·3	+ 0·30	− 0·22	+ 0·03	+ 0·33	
28	,,	− 2·0	+ 0·3	+ 0·33	− 0·17	+ 0·03	+ 0·31	Polaris and Achernar.
29	,,	− 1·8	+ 0·3	+ 0·35	− 0·19	+ 0·02	+ 0·31	
30	,,	− 2·2	+ 0·3	+ 0·29	− 0·15	+ 0·02	+ 0·31	
31	,,	− 1·8	+ 0·3	+ 0·21	− 0·16	+ 0·01	+ 0·32	
Nov. 1	M	− 2·9	+ 0·1	+ 0·24	− 0·08	+ 0·05	+ 0·32	Polaris and 93 R.P.L.
2	,,	− 2·5	+ 0·1	+ 0·20	− 0·07	+ 0·06	+ 0·34	
5	,,	− 2·4	+ 0·1	+ 0·19	− 0·10	+ 0·05	+ 0·39	Polaris and 99 R. P. L.
6	,,	− 2·2	+ 0·1	+ 0·10	− 0·13	0·00	+ 0·39	
7	,,	− 1·1	+ 0·1	+ 0·04	− 0·10	+ 0·01	+ 0·38	
8	,,	− 2·3	+ 0·1	+ 0·19	− 0·08	+ 0·02	+ 0·38	
9	,,	− 0·9	+ 0·1	+ 0·19	− 0·08	+ 0·08	+ 0·38	Polaris and 2293 Redhill.
11	,,	− 0·8	+ 0·1	+ 0·05	− 0·10	+ 0·01	+ 0·37	
12	,,	− 1·7	+ 0·1	+ 0·04	− 0·06	+ 0·05	+ 0·37	
13	,,	− 1·1	+ 0·1	+ 0·03	− 0·09	+ 0·06	+ 0·37	
15	,,	− 0·2	+ 0·1	+ 0·16	− 0·10	+ 0·05	+ 0·36	Polaris and β Ceti.
16	,,	− 0·3	+ 0·1	+ 0·21	− 0·06	+ 0·09	+ 0·38	
20	,,	+ 2·4	+ 0·1	+ 0·03	− 0·04	+ 0·04	+ 0·46	
25	,,	+ 4·1	+ 0·1	− 0·04	+ 0·32	+ 0·11	+ 0·56	Polaris and 99 R. P. L.
29	,,	+ 9·3	+ 0·1	− 0·05	+ 0·39	+ 0·10	+ 0·61	
30	,,	+ 9·6	+ 0·1	+ 0·03	+ 0·44	+ 0·07	+ 0·62	12 R. P. L. and 67 Ceti.
Dec. 3	R	+ 10·4	+ 0·1	+ 0·14	+ 0·47	− 0·01	+ 0·58	
4	,,	+ 10·3	+ 0·1	+ 0·09	+ 0·48	0·00	+ 0·57	
7	,,	+ 12·8	+ 0·1	+ 0·11	+ 0·54	+ 0·03	+ 0·53	Polaris and 115 R. P. L.
9	,,	+ 12·9	+ 0·1	+ 0·13	+ 0·53	+ 0·03	+ 0·50	
10	,,	+ 13·8	+ 0·1	+ 0·02	+ 0·52	+ 0·03	+ 0·48	
12	,,	+ 13·2	+ 0·1	− 0·32	+ 0·54	+ 0·02	+ 0·44	
13	,,	+ 13·1	+ 0·1	− 0·35	+ 0·50	+ 0·04	+ 0·43	
14	,,	+ 11·7	+ 0·1	− 0·28	+ 0·53	+ 0·05	+ 0·41	40 R. P. L. and ε Urs. Min.
16	,,	+ 11·2	+ 0·1	− 0·23	+ 0·50	+ 0·05	+ 0·42	
18	,,	+ 12·8	+ 0·1	− 0·24	+ 0·42	+ 0·07	+ 0·43	
20	,,	+ 12·9	+ 0·1	− 0·20	+ 0·41	+ 0·09	+ 0·44	
24	,,	+ 12·1	+ 0·1	− 0·27	+ 0·43	+ 0·10	+ 0·46	35 R.P.L. and ε Urs. Min.
27	M	+ 10·9	+ 0·1	− 0·27	+ 0·36	+ 0·11	+ 0·37	35 and 115 R. P. L.
30	,,	+ 10·4	+ 0·1	− 0·28	+ 0·22	+ 0·07	+ 0·34	

Heavy rain between November 16th and 20th and also between 25th and 28th.

Instrumental Correction adopted in 1873.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
Jan. 2	M	+ 8·5	+ 0·1	− 0·34	+ 0·15	+ 0·07	+ 0·31	
4	,,	+ 6·9	+ 0·1	− 0·27	+ 0·17	+ 0·06	+ 0·29	
6	,,	+ 7·4	+ 0·1	− 0·15	+ 0·18	+ 0·08	+ 0·27	35 R. P. L. and ε Urs. Min.
7	,,	+ 6·9	+ 0·1	− 0·12	+ 0·04	+ 0·02	+ 0·25	
8	,,	+ 5·8	+ 0·1	− 0·25	+ 0·07	+ 0·02	+ 0·24	
9	,,	+ 5·4	+ 0·1	− 0·31	+ 0·10	+ 0·06	+ 0·22	35 R. P. L. and δ Urs. Min.
10	,,	+ 5·5	+ 0·1	− 0·07	+ 0·05	+ 0·01	+ 0·21	
11	,,	+ 5·6	+ 0·1	+ 0·02	0·00	− 0·02	+ 0·20	
14	,,	+ 3·5	+ 0·1	− 0·37	+ 0·06	+ 0·02	+ 0·17	35 R. P. L. and ε Urs. Min.
15	,,	+ 3·1	+ 0·1	− 0·32	+ 0·08	+ 0·02	+ 0·15	
16	,,	+ 2·5	+ 0·1	− 0·14	+ 0·08	+ 0·06	+ 0·14	
17	,,	+ 2·1	+ 0·1	− 0·13	+ 0·07	+ 0·03	+ 0·12	
18	,,	+ 1·7	+ 0·1	− 0·17	+ 0·03	+ 0·01	+ 0·11	
20	,,	+ 1·4	+ 0·1	− 0·25	+ 0·03	0·00	+ 0·08	35 R. P. L. and ε Urs. Min.
21	,,	+ 1·1	+ 0·1	− 0·16	+ 0·11	+ 0·04	+ 0·08	
22	,,	0·0	+ 0·1	− 0·03	+ 0·11	+ 0·02	+ 0·08	
23	,,	− 0·5	+ 0·1	− 0·07	+ 0·06	+ 0·01	+ 0·07	
24	,,	− 0·5	+ 0·1	− 0·12	+ 0·07	− 0·02	+ 0·07	35 R. P. L. and ε Urs. Min.
25	,,	− 1·0	+ 0·1	− 0·20	+ 0·10	+ 0·02	+ 0·09	
27	,,	− 1·2	+ 0·1	− 0·14	+ 0·11	+ 0·05	+ 0·14	
28	,,	− 1·1	+ 0·1	− 0·25	+ 0·08	+ 0·02	+ 0·17	
29	,,	− 1·6	+ 0·1	− 0·27	+ 0·10	+ 0·03	+ 0·19	51 Cephei (Hev.) & δ Urs. Min.
30	,,	− 2·5	+ 0·1	− 0·14	+ 0·06	0·00	+ 0·19	
31	,,	− 1·9	+ 0·1	− 0·31	+ 0·07	+ 0·02	+ 0·19	
Feb. 1	,,	− 2·8	+ 0·1	− 0·42	+ 0·11	+ 0·02	+ 0·19	
5	,,	+ 3·7	+ 0·1	− 0·15	+ 0·07	+ 0·03	+ 0·19	51 Cephei (Hev.) and 131 R. P. L.
6	,,	+ 5·0	+ 0·1	− 0·22	+ 0·10	+ 0·04	+ 0·22	
7	,,	+ 4·7	+ 0·1	− 0·27	+ 0·15	+ 0·04	+ 0·25	
8	,,	+ 4·9	+ 0·1	− 0·17	+ 0·20	+ 0·09	+ 0·28	
10	,,	+ 4·2	+ 0·1	− 0·32	+ 0·13	+ 0·07	+ 0·34	
11	,,	+ 4·6	+ 0·1	− 0·26	+ 0·21	+ 0·12	+ 0·37	51 Cephei (Hev.) and 131 R. P. L.
12	,,	+ 3·8	+ 0·1	− 0·19	+ 0·18	+ 0·09	+ 0·35	
13	,,	+ 4·4	+ 0·1	− 0·26	+ 0·16	+ 0·06	+ 0·32	
14	,,	+ 3·6	+ 0·1	− 0·20	+ 0·19	+ 0·07	+ 0·30	
15	,,	+ 3·3	+ 0·1	− 0·20	+ 0·18	+ 0·09	+ 0·28	51 Cephei (Hev.) and 24 Urs. Min.
17	,,	+ 3·1	+ 0·1	− 0·28	+ 0·17	+ 0·03	+ 0·26	
19	,,	+ 2·6	+ 0·1	− 0·34	+ 0·19	+ 0·02	+ 0·25	
20	,,	+ 2·8	+ 0·1	− 0·32	+ 0·22	+ 0·05	+ 0·24	51 Cephei (Hev.) and 24 Urs. Min.
21	,,	+ 2·9	+ 0·1	− 0·29	+ 0·25	+ 0·10	+ 0·24	
22	,,	+ 2·5	+ 0·1	− 0·34	+ 0·22	+ 0·06	+ 0·23	
24	,,	+ 2·1	+ 0·1	− 0·40	+ 0·23	+ 0·03	+ 0·22	
26	,,	+ 1·5	+ 0·1	− 0·40	+ 0·24	+ 0·06	+ 0·21	51 Cephei (Hev.) and 131 R. P. L.
27	,,	+ 0·7	+ 0·1	− 0·35	+ 0·25	+ 0·07	+ 0·20	
28	,,	+ 0·8	+ 0·1	− 0·32	+ 0·19	+ 0·06	+ 0·19	
Mar. 1	,,	+ 0·7	+ 0·1	− 0·34	+ 0·19	+ 0·06	+ 0·19	
3	,,	− 0·3	+ 0·1	− 0·15	+ 0·10	0·00	+ 0·17	60 and 143 R. P. L.
4	,,	− 1·1	+ 0·1	− 0·10	+ 0·10	− 0·01	+ 0·11	
5	,,	− 1·6	+ 0·1	− 0·16	+ 0·08	− 0·04	+ 0·05	
6	,,	− 2·1	+ 0·1	− 0·26	+ 0·04	− 0·05	− 0·01	51 Cephei (Hev.) and 131 R. P. L.
7	,,	− 1·8	+ 0·1	− 0·30	+ 0·12	− 0·02	+ 0·01	
10	,,	− 2·9	+ 0·1	− 0·32	+ 0·18	− 0·01	+ 0·08	51 Cephei (Hev.) and 131 R. P. L.
12	,,	− 4·0	+ 0·1	− 0·37	+ 0·11	0·00	+ 0·07	
14	,,	− 3·7	+ 0·1	− 0·29	+ 0·17	0·00	+ 0·06	72 and 150 R. P. L.
17	,,	− 3·7	+ 0·1	− 0·16	+ 0·04	− 0·05	+ 0·14	
18	,,	− 3·8	+ 0·1	− 0·21	+ 0·12	− 0·04	+ 0·17	60 and 143 R. P. L.
19	,,	− 4·1	+ 0·1	− 0·16	+ 0·11	− 0·05	+ 0·17	
20	,,	− 4·2	+ 0·1	− 0·12	+ 0·08	− 0·06	+ 0·17	
21	,,	− 3·6	+ 0·1	− 0·15	+ 0·16	− 0·02	+ 0·17	60 and 151 R. P. L.

Instrumental Corrections adopted in 1873.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	*s*	*s*	*s*	*s*	
Mar. 24	M	− 4·1	+ 0·1	− 0·38	+ 0·07	− 0·05	+ 0·07	
25	R	− 3·8	+ 0·1	− 0·42	+ 0·12	− 0·07	+ 0·03	
27	M	− 4·1	+ 0·1	− 0·34	+ 0·14	− 0·06	− 0·04	72 and 151 R. P. L.
28	„	− 4·2	+ 0·1	− 0·39	+ 0·14	− 0·04	− 0·05	
29	R	− 3·9	+ 0·1	− 0·36	+ 0·13	− 0·02	− 0·06	
31	„	− 4·2	+ 0·1	− 0·24	+ 0·12	− 0·03	− 0·07	72 & 89 R. P. L. & ε Corvi.
Apl. 4	„	− 3·9	+ 0·1	− 0·22	+ 0·15	− 0·01	− 0·01	72 and 158 R. P. L.
5	„	− 3·7	+ 0·1	− 0·21	+ 0·18	+ 0·02	− 0·01	
7	„	− 3·2	+ 0·1	− 0·15	+ 0·17	+ 0·02	− 0·02	
8	„	− 3·1	+ 0·1	− 0·13	+ 0·18	+ 0·01	− 0·02	
12	M	− 2·7	+ 0·1	− 0·19	+ 0·19	− 0·04	− 0·03	
14	„	− 3·7	+ 0·1	− 0·25	+ 0·28	− 0·03	− 0·03	72 and 12 R. P. L.
16	R	− 4·9	+ 0·1	− 0·35	+ 0·31	0·00	0·00	
17	„	− 3·3	+ 0·1	− 0·51	+ 0·27	0·00	+ 0·01	108 and 151 R. P. L.
18	„	− 3·3	+ 0·1	− 0·63	+ 0·26	+ 0·01	+ 0·02	
19	„	− 3·6	+ 0·1	− 0·58	+ 0·26	+ 0·03	+ 0·03	
21	„	− 3·6	+ 0·1	− 0·51	+ 0·25	+ 0·03	+ 0·06	
22	„	− 3·2	+ 0·1	− 0·46	+ 0·28	+ 0·04	+ 0·07	89 and 151 R. P. L.
23	„	− 2·9	+ 0·1	− 0·36	+ 0·27	+ 0·03	+ 0·07	
24	„	− 2·9	+ 0·1	− 0·39	+ 0·25	+ 0·02	+ 0·06	
25	„	− 3·7	+ 0·1	− 0·39	+ 0·23	0·00	+ 0·06	
26	„	− 3·2	+ 0·1	− 0·33	+ 0·21	− 0·01	+ 0·05	79 and 158 R. P. L.
28	„	− 3·9	+ 0·1	− 0·19	+ 0·22	− 0·01	+ 0·03	
29	„	− 4·5	+ 0·1	− 0·17	+ 0·22	− 0·07	+ 0·02	
30	„	− 3·8	+ 0·1	− 0·33	+ 0·19	− 0·08	+ 0·01	
May 1	„	− 4·4	+ 0·1	− 0·29	+ 0·28	− 0·02	0·00	γ Urs. Maj. and Polaris.
2	„	− 4·4	+ 0·1	− 0·20	+ 0·25	− 0·04	+ 0·01	
3	„	− 3·8	+ 0·1	− 0·25	+ 0·30	− 0·02	+ 0·02	
5	„	− 4·1	+ 0·1	− 0·27	+ 0·27	− 0·05	+ 0·04	
6	„	− 4·6	+ 0·1	− 0·26	+ 0·29	− 0·01	+ 0·05	103 R. P. L. & α^2 Centauri.
7	„	− 4·9	+ 0·1	− 0·22	+ 0·27	0·00	+ 0·05	
8	„	− 4·6	+ 0·1	− 0·15	+ 0·28	0·00	+ 0·05	
9	„	− 4·5	+ 0·1	− 0·10	+ 0·25	− 0·02	+ 0·05	
12	„	− 4·4	+ 0·1	− 0·30	+ 0·24	− 0·01	+ 0·06	
13	„	− 5·2	+ 0·1	− 0·26	+ 0·29	+ 0·02	+ 0·06	
14	„	− 4·9	+ 0·1	− 0·20	+ 0·28	+ 0·02	+ 0·06	
15	„	− 4·7	+ 0·1	− 0·14	+ 0·28	+ 0·02	+ 0·06	111 R. P. L. and Spica.
16	„	− 4·7	+ 0·1	− 0·12	+ 0·30	+ 0·02	0·00	+ 0·06
17	„	− 4·5	+ 0·1	− 0·18	+ 0·31	+ 0·03	− 0·06	103 and 34 R. P. L. + 0·05
19	„	− 3·5	+ 0·1	− 0·22	+ 0·25	− 0·02	− 0·05	+ 0·06
20	„	− 4·9	+ 0·1	− 0·17	+ 0·27	− 0·03	− 0·05	103 and 12 R. P. L. + 0·07
21	„	− 5·1	+ 0·1	− 0·18	+ 0·25	− 0·02	− 0·03	+ 0·07
23	„	− 5·0	+ 0·1	− 0·47	+ 0·26	− 0·03	0·00	+ 0·07
24	„	− 5·0	+ 0·1	− 0·47	+ 0·31	+ 0·01	+ 0·02	~~103 and 12 R. P. L.~~ + 0·08
26	„	− 5·0	+ 0·1	− 0·39	+ 0·31	+ 0·01	− 0·01	+ 0·08
27	„	− 4·7	+ 0·1	− 0·39	+ 0·34	+ 0·01	− 0·03	+ 0·08
June 2	„	− 4·9	+ 0·1	− 0·41	+ 0·34	− 0·04	− 0·13	103 R. P. L. & α^2 Libræ. + 0·10
5	„	− 6·1	+ 0·1	− 0·25	+ 0·39	0·00	− 0·07	+ 0·13
6	„	− 4·9	+ 0·1	− 0·22	+ 0·37	− 0·01	− 0·05	+ 0·13
10	„	− 5·9	+ 0·1	− 0·28	+ 0·35	0·00	+ 0·03	+ 0·17
14	„	− 4·7	+ 0·1	− 0·19	+ 0·36	+ 0·05	+ 0·13	+ 0·20
17	M	− 5·3	+ 0·1	− 0·15	+ 0·38	− 0·04	+ 0·18	+ 0·23
19	„	− 6·1	+ 0·1	− 0·18	+ 0·31	− 0·08	+ 0·22	+ 0·24
21	„	− 6·2	+ 0·1	− 0·25	+ 0·41	− 0·02	+ 0·26	ε Urs. Min. and 43 R. P. L.
23	„	− 6·1	+ 0·1	− 0·25	+ 0·34	− 0·03	+ 0·22	
25	„	− 5·7	+ 0·1	− 0·32	+ 0·38	− 0·03	+ 0·18	δ Urs. Min. and 40 R. P. L.
26	„	− 5·3	+ 0·1	− 0·10	+ 0·37	− 0·02	+ 0·17	

Instrumental Corrections adopted in 1873.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s.	s	s	s		
June 27	M	− 5·4	+ 0·1	− 0·10	+ 0·31	− 0·05	+ 0·17		
28	,,	− 5·8	+ 0·1	− 0·34	+ 0·32	− 0·06	+ 0·16		
July 4	,,	− 6·2	+ 0·1	− 0·17	+ 0·33	− 0·06	+ 0·13		
9	,,	− 5·7	+ 0·1	− 0·19	+ 0·30	− 0·06	+ 0·11	δ Urs. Min. and 51 Cephei.	
11	,,	− 6·8	+ 0·1	− 0·21	+ 0·35	− 0·08	+ 0·12		
14	,,	− 6·0	+ 0·1	− 0·18	+ 0·42	− 0·04	+ 0·14		
17	,,	− 6·5	+ 0·1	− 0·12	+ 0·34	− 0·06	+ 0·16	θ Ophiuchi & δ Urs. Min.	
25	,,	− 6·7	+ 0·1	− 0·08	+ 0·31	− 0·07	+ 0·16	α Cygni and 40 R. P. L.	
26	,,	− 6·9	+ 0·1	− 0·08	+ 0·34	− 0·07	+ 0·18		
29	,,	− 7·1	+ 0·1	− 0·10	+ 0·33	− 0·06	+ 0·23	μ Sagittarii & δ Urs. Min.	
31	,,	− 7·0	+ 0·1	− 0·11	+ 0·37	− 0·06	+ 0·28		
Aug. 5	R	− 5·5	+ 0·1	− 0·04	+ 0·34	+ 0·02	+ 0·40	μ Sagittarii & δ Urs. Min.	
7	,,	− 5·8	+ 0·1	+ 0·02	+ 0·32	+ 0·03	+ 0·34		
8	,,	− 5·4	+ 0·1	+ 0·03	+ 0·36	+ 0·01	+ 0·31	α Lyræ and 43 R. P. L.	
9	,,	− 5·2	+ 0·1	+ 0·01	+ 0·31	+ 0·01	+ 0·35		+0·28
11	,,	− 5·4	+ 0·1	+ 0·05	+ 0·35	+ 0·01	+ 0·42	24 Cephei and 70 R. P. L.	+0·23
12	,,	− 5·4	+ 0·1	+ 0·01	+ 0·33	− 0·01	+ 0·40		+0·28
13	,,	− 5·4	+ 0·1	− 0·02	+ 0·33	0·00	+ 0·51		+0·34
14	,,	− 5·6	+ 0·1	− 0·02	+ 0·35	0·00	+ 0·55	24 Cephei and 51 Cephei.	+0·39
15	,,	− 5·9	+ 0·1	− 0·08	+ 0·30	− 0·03	+ 0·54		+0·39
20	,,	− 5·7	+ 0·1	− 0·08	+ 0·32	− 0·02	+ 0·51		+0·38
27	,,	− 5·6	+ 0·1	− 0·05	+ 0·35	− 0·01	+ 0·45		+0·37
29	,,	− 5·5	+ 0·1	− 0·09	+ 0·28	− 0·06	+ 0·44		+0·37
Sep. 3	M	− 5·5	+ 0·1	− 0·15	+ 0·44	+ 0·02	+ 0·40		+0·36
4	,,	− 4·6	+ 0·1	− 0·19	+ 0·46	+ 0·05	+ 0·39		+0·36
5	,,	− 5·2	+ 0·1	− 0·20	+ 0·47	+ 0·06	+ 0·39		+0·36
8	,,	− 5·3	+ 0·1	− 0·04	+ 0·46	+ 0·03	+ 0·36		+0·35
9	,,	− 5·4	+ 0·1	0·00	+ 0·45	+ 0·02	+ 0·36		+0·35
10	,,	− 5·8	+ 0·1	− 0·06	+ 0·36	− 0·02	+ 0·35	λ Urs. Min. and 93 R. P. L.	
11	,,	− 5·9	+ 0·1	− 0·12	+ 0·38	− 0·05	+ 0·36		
12	,,	− 6·2	+ 0·1	− 0·06	+ 0·39	− 0·01	+ 0·36		
13	,,	− 6·5	+ 0·1	− 0·05	+ 0·40	+ 0·01	+ 0·37		
15	,,	− 6·6	+ 0·1	− 0·09	+ 0·42	+ 0·01	+ 0·38		
16	,,	− 7·0	+ 0·1	− 0·10	+ 0·42	+ 0·02	+ 0·39		
18	,,	− 6·8	+ 0·1	+ 0·08	+ 0·43	+ 0·02	+ 0·40		
19	,,	− 6·9	+ 0·1	+ 0·14	+ 0·36	+ 0·02	+ 0·41	143 and 60 R. P. L.	
20	,,	− 6·5	+ 0·1	+ 0·04	+ 0·30	− 0·01	+ 0·43		
22	,,	− 5·7	+ 0·1	− 0·03	+ 0·37	+ 0·05	+ 0·48		
23	,,	− 5·2	+ 0·1	− 0·01	+ 0·35	− 0·03	+ 0·50		
25	,,	− 3·5	+ 0·1	− 0·16	+ 0·33	− 0·01	+ 0·55		
26	,,	− 3·2	+ 0·1	− 0·05	+ 0·37	+ 0·03	+ 0·58		
27	,,	− 3·3	+ 0·1	+ 0·13	+ 0·34	+ 0·03	+ 0·60	2 Urs. Min. and 89 R. P. L.	
29	,,	− 3·4	+ 0·1	+ 0·06	+ 0·27	− 0·01	+ 0·59		
Oct. 2	R	− 2·7	+ 0·1	+ 0·02	+ 0·24	+ 0·05	+ 0·58		
3	,,	− 2·4	+ 0·1	− 0·02	+ 0·23	+ 0·04	+ 0·58	α Gruis and 151 R. P. L.	
4	,,	− 1·1	+ 0·1	− 0·06	+ 0·24	+ 0·02	+ 0·45	151 and 79 R. P. L.	
6	M	+ 17·7	+ 0·1	+ 0·06	+ 0·28	− 0·34	+ 0·46		
7	,,	+ 18·2	+ 0·1	+ 0·01	+ 0·24	− 0·40	+ 0·47		
10	,,	+ 21·3	+ 0·1	+ 0·09	+ 0·34	− 0·31	+ 0·48	α Gruis and Polaris.	
11	,,	+ 20·7	+ 0·1	+ 0·14	+ 0·25	− 0·31	+ 0·48		
15	,,	− 0·2	+ 0·1	− 0·22	+ 0·22	− 0·26	+ 0·47		
16	,,	− 0·4	+ 0·1	− 0·23	+ 0·22	+ 0·01	+ 0.47		
18	,,	− 0·9	+ 0·1	− 0·17	+ 0·25	+ 0·03	+ 0·47		
21	,,	− 1·6	+ 0·1	− 0·31	+ 0·26	− 0·01	+ 0·46	151 and 60 R. P. L.	
22	,,	− 1·8	+ 0·1	− 0·44	+ 0·27	− 0·02	+ 0·46		
25	,,	− 7·0	+ 0·1	− 0·55	+ 0·34	− 0·14	+ 0.46		

Oct. 6, 5*h*.—Object glass cleaned and replaced.
14, 2*h*.—Object glass again removed. By revolving its cell through 180° the collimation was changed 1·570 revolution = 2*s*.47.
2.—Transit circle cleaned and pivots oiled.
Oct. 25.—The object glass was again removed for examination.

Instrumental Corrections adopted in 1873.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	*s*	*s*	*s*	*s*	
Oct. 27	M	− 8·3	+ 0·1	− 0·52	+ 0·32	− 0·06	+ 0·46	Fomalhaut and Polaris.
28	,,	− 6·7	+ 0·1	− 0·43	+ 0·34	− 0·04	+ 0·47	
29	,,	− 7·7	+ 0·1	− 0·34	+ 0·29	− 0·04	+ 0·49	2 Urs. Min. & 108 R. P. L.
30	,,	− 7·8	+ 0·1	− 0·47	+ 0·34	− 0·04	+ 0·50	
31	,,	− 7·9	+ 0·1	− 0·44	+ 0·34	− 0·01	+ 0·51	
Nov. 1	,,	− 8·6	+ 0·1	− 0·31	+ 0·33	− 0·04	+ 0·52	
5	,,	− 9·6	+ 0·1	− 0·43	+ 0·29	+ 0·01	+ 0·56	151 and 79 R. P. L.
6	,,	− 10·1	+ 0·1	− 0·34	+ 0·29	− 0·02	+ 0·55	
7	,,	− 10·5	+ 0·1	− 0·33	+ 0·28	− 0·01	+ 0·55	
8	,,	− 10·3	+ 0·1	− 0·40	+ 0·30	− 0·03	+ 0·54	18 and 98 R. P. L.
10	R	− 9·3	+ 0·1	− 0·27	+ 0·31	0·00	+ 0·43	
11	,,	− 8·5	+ 0·1	− 0·31	+ 0·28	− 0·04	+ 0·38	β Ceti and Polaris.
12	,,	− 8·9	+ 0·1	− 0·39	+ 0·29	− 0·04	+ 0·39	
17	,,	− 8·0	+ 0·1	− 0·35	+ 0·24	− 0·06	+ 0·43	18 and 98 R. P. L.
18	,,	− 8·6	+ 0·1	− 0·37	+ 0·22	− 0·08	+ 0·44	
22	,,	− 6·9	+ 0·1	− 0·43	+ 0·18	− 0·06	+ 0·47	
29	,,	− 2·5	+ 0·1	− 0·52	+ 0·14	− 0·04	+ 0·54	
Dec. 4	,,	− 1·1	+ 0·1	− 0·60	+ 0·39	− 0·04	+ 0·58	
6	,,	− 1·0	+ 0·1	− 0·56	+ 0·38	− 0·03	+ 0·60	Achernar and Polaris.
8	,,	− 2·6	+ 0·1	− 0·54	+ 0·39	− 0·03	+ 0·53	
9	,,	− 3·2	+ 0·1	− 0·59	+ 0·45	− 0·06	+ 0·50	26 and 108 R. P. L.
10	,,	− 3·2	+ 0·1	− 0·59	+ 0·45	− 0·05	+ 0·53	
11	,,	− 3·5	+ 0·1	− 0·42	+ 0·46	− 0·03	+ 0·56	26 and 108 R. P. L.
12	M	− 4·5	+ 0·1	− 0·63	+ 0·39	+ 0·02	+ 0·56	
13	R	− 4·0	+ 0·1	− 0·63	+ 0·45	+ 0·01	+ 0·56	
15	M	− 5·9	+ 0·1	− 0·25	+ 0·27	− 0·03	+ 0·56	
16	,,	− 5·9	+ 0·1	− 0·25	+ 0·26	− 0·01	+ 0·56	40 and 98 R. P. L.
18	R	− 5·2	+ 0·1	− 0·34	+ 0·29	− 0·02	+ 0·53	
19	,,	− 4·5	+ 0·1	− 0·35	+ 0·27	− 0·02	+ 0·52	
20	,,	− 4·9	+ 0·1	− 0·34	+ 0·30	+ 0·01	+ 0·51	
23	,,	− 6·3	+ 0·1	− 0·16	+ 0·16	− 0·03	+ 0·47	
29	M	− 4·9	+ 0·1	− 0·12	+ 0·10	0·00	+ 0·39	γ^1 Eridani and 40 R. P. L.

Dec. 15 at 17*h*. 40*m*. sid. time the clock stopped, having run down. Started again at 2*h*. 1*m*.

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1872.		1871.			1872.			1873.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	*m.*		*s*	"		*s*	"		*s*	"
α Andromedæ ...	0	2	5	+ 0·04	+ 0·8	5	− 0·03	+ 1·0	2	0·00	+ 0·3
γ Pegasi (*Algenib*) ...	0	7	8	+ 0·01	0·0	9	− 0·06	+ 0·3	2	− 0·03	+ 1·9
12 Ceti	0	24	13	− 0·02	+ 1·0	5	+ 0·07	+ 0·5	4	0·00	+ 0·8
α Cassiopeæ	0	33	1	− 0·06	+ 0·5	...	.....	.....	...	.....	.....
β Ceti	0	37	11	0·00	− 0·5	10	+ 0·04	+ 0·7	6	+ 0·04	+ 0·3
ϵ Piscium	0	56	9	− 0·03	− 1·7	6	− 0·07	− 0·9	6	− 0·05	− 0·6
α Urs. Min. (*Polaris*)..	1	12	8	− 0·02	+ 0·5	14	− 0·16	+ 0·5	...	.....	.....
θ^1 Ceti	1	18	5	0·00	+ 1·4	4	+ 0·12	+ 0·7	4	+ 0·02	+ 2·0
η Piscium	1	25	6	0·00	+ 0·8	5	− 0·06	+ 1·0	...	.....	.....
α Eridani (*Achernar*).	1	33	3	+ 0·31	+ 3·2	2	+ 0·45	+ 2·1	1	+ 0·24	+ 2·5
ν Piscium	1	35	11	+ 0·02	− 0·3	6	+ 0·08	− 0·6	1	− 0·06	+ 1·0
β Arietis	1	48	6	+ 0·05	+ 1·2	9	+ 0·03	+ 0·5	3	− 0·02	− 0·2
α Arietis	2	0	4	− 0·05	0·0	5	− 0·09	+ 0·1	2	− 0·02	+ 0·1
67 Ceti	2	11	6	+ 0·03	+ 0·5	6	+ 0·05	0·0	4	+ 0·05	− 0·1
ξ^2 Ceti	2	21	7	− 0·02	+ 0·6	6	− 0·01	− 0·8	6	+ 0·05	− 0·7
γ Ceti	2	37	3	+ 0·03	− 0·6	7	− 0·06	− 1·1	6	− 0·04	− 1·9
α Ceti...	2	56	3	+ 0·07	+ 1·0	6	0·00	− 0·2	9	+ 0·02	− 0·2
δ Arietis	3	4	2	− 0·01	+ 2·1	7	− 0·02	+ 1·0	1	− 0·02	+ 0·7
α Persei	3	15	1	− 0·03	+ 0·1	...	.....	.....	...	.....	.....
η Tauri	3	40	6	0·00	+ 0·3	5	− 0·03	+ 0·6	6	− 0·09	+ 0·9
γ^1 Eridani	3	52	7	+ 0·01	+ 0·3	6	+ 0·05	0·0	7	+ 0·06	− 0·2
o^1 Eridani	4	6	8	+ 0·01	+ 1·8	11	+ 0·04	+ 0·6	6	+ 0·06	− 0·2
ϵ Tauri	4	21	9	0·00	+ 1·1	10	+ 0·01	+ 0·9	5	+ 0·05	+ 0·5
α Tauri (*Aldebaran*)...	4	29	6	− 0·01	+ 1·6	9	− 0·01	+ 1·8	5	− 0·03	+ 0·5
ι Aurigæ	4	49	2	− 0·03	+ 1·7	15	− 0·01	+ 0·5	5	+ 0·09	+ 0·1
ϵ Leporis	5	0	1	+ 0·06	+ 0·6	9	− 0·02	+ 0·2	1	+ 0·01	− 1·1
α Aurigæ (*Capella*)...	5	7	...	.....	.....	1	+ 0·04	+ 0·5	...	.....	.....
β Orionis (*Rigel*) ...	5	8	2	− 0·05	− 0·1	6	+ 0·03	+ 0·3	5	− 0·03	− 0·4
β Tauri	5	18	5	− 0·01	+ 1·6	8	− 0·01	+ 0·1	3	+ 0·02	+ 0·5
δ Orionis	5	25	6	− 0·02	+ 1·4	4	− 0·04	+ 0·3	2	+ 0·06	− 0·5
α Leporis	5	27	1	− 0·02	− 1·2	4	− 0·03	+ 0 3	3	+ 0·04	+ 0·8
ϵ Orionis	5	30	2	+ 0·03	+ 0·5	4	+ 0·02	+ 1·6	11	+ 0·05	+ 0·5
α Columbæ	5	35	4	− 0·09	+ 1·7	3	− 0·04	+ 1·9	8	− 0·05	+ 1·5
α Orionis	5	48	6	− 0·03	− 0·4	6	− 0·06	− 0·7	4	− 0·02	− 1·4
ν Orionis	6	0	10	0·00	+ 0·2	4	+ 0·06	− 0·7	6	0·00	0·0

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1872.			1871.			1872.			1873.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	*m.*	° ′		*s*	″		*s*	″		*s*	″
μ Geminorum ...	6	15	67 25	7	− 0·09	+ 1·5	2	− 0·03	+ 0·8	10	− 0·06	+ 0·9
α Argûs (*Canopus*) ...	6	21	142 38	...	.....	.....	3	− 0·06	+ 1·1	...	.....	.....
γ Geminorum ...	6	30	73 30	10	+ 0·07	+ 1·5	5	+ 0·09	+ 1·4	23	+ 0·01	+ 1·2
51 (Hev.) Cephei ...	6	40	2 46	8	+ 0·15	− 0·2	4	− 0·16	− 0·6	7	+ 0·36	− 1·5
α Canis Maj. (*Sirius*)..	6	40	106 33	2	− 0·11	+ 8·2	...	.....	.....	1	− 0·07	+ 2·9
ε Canis Majoris ...	6	54	118 48	6	− 0·02	+ 0·1	6	− 0·03	+ 0·1	18	+ 0·04	− 0·1
γ Canis Majoris ...	6	58	105 27	2	− 0·02	− 0·2	2	− 0·14	+ 0·9	12	− 0·01	+ 1·0
δ Geminorum ..	7	12	67 47	10	− 0·01	+ 1·0	14	− 0·03	+ 0·3	6	− 0·08	+ 1·0
α^2 Geminorum(*Castor*)	7	26	57 50	4	− 0·01	+ 1·1	9	+ 0·03	+ 1·4	6	+ 0·09	+ 0·7
α Can. Min. (*Procyon*)	7	33	84 27	1	− 0·11	+ 0·3	6	− 0·03	0·0	8	− 0·11	− 1·1
β Geminorum(*Pollux*)	7	37	61 40	3	+ 0·04	+ 1·0	7	− 0·02	+ 1·3	2	− 0·02	+ 0·5
6 Cancri	7	56	61 51	2	− 0·08	+ 0·5	13	+ 0·02	+ 1·1	2	+ 0·08	+ 1·0
15 Argûs	8	2	113 56	1	+ 0·08	+ 0·7	12	− 0·05	+ 0·6	5	+ 0·03	+ 0·7
η Cancri	8	25	69 8	9	0·00	+ 0·5	14	+ 0·01	+ 0·4	7	− 0·03	− 0·2
ε Hydræ	8	40	83 7	6	− 0·01	+ 0·1	13	− 0·03	+ 0·8	15	0·00	− 0·1
83 Cancri	9	12	71 45	18	+ 0·02	+ 1·2	9	+ 0·06	+ 0·4	4	+ 0·10	+ 0·9
ι Argûs	9	14	148 44	...	.....	.....	1	+ 0·07	+ 5·5	2	− 0·14	+ 5·7
α Hydræ	9	21	98 6	10	+ 0·02	+ 0·8	10	+ 0·03	+ 0·5	2	0·00	− 0·4
θ Ursæ Majoris ...	9	24	37 44	...	.....	.....	...	.....	.....	1	+ 0·19	− 0·1
ε Leonis	9	39	65 38	10	− 0·04	+ 0·1	6	− 0·09	− 1·1	15	− 0·07	+ 0·6
π Leonis	9	53	81 21	13	− 0·01	+ 0·4	15	+ 0·05	+ 0·4	4	+ 0·02	+ 0·4
α Leonis (*Regulus*) ...	10	2	77 24	12	+ 0·01	+ 0·8	11	− 0·01	+ 0·4	4	+ 0·06	+ 1·6
γ^1 Leonis	10	13	69 31	18	− 0·05	+ 1·0	17	− 0·05	+ 1·0	7	− 0·10	+ 1·2
ρ Leonis	10	26	80 2	20	0·00	− 0·4	10	+ 0·01	− 0·2	15	0·00	− 1·2
η Argûs	10	40	149 1	...	.....	.....	4	− 0·05	+ 4·4	...	.....	.....
l Leonis	10	43	78 47	26	+ 0·05	+ 0·2	11	+ 0·02	+ 0·4	4	+ 0·03	− 1·0
α Ursæ Majoris ...	10	56	27 34	...	.....	.....	1	− 0·16	− 1·1	...	.. ..	.....
χ Leonis	10	58	81 58	23	0·00	− 1·0	9	− 0·04	− 1·5	12	+ 0·01	− 1·3
δ Leonis	11	7	68 47	17	− 0·07	+ 0·9	9	− 0·03	+ 0·3	3	− 0·10	+ 0·3
δ Hydræ et Crateris..	11	13	104 5	5	+ 0·06	+ 1·2	10	+ 0·01	+ 0·7	5	− 0·03	+ 0·6
υ Leonis	11	30	90 7	4	+ 0·08	+ 0·5	16	+ 0·06	− 0·1	5	+ 0·08	− 0·7
β Leonis	11	43	74 43	3	− 0·04	+ 0·4	15	0·00	− 0·3	7	+ 0·03	− 0·3
γ Ursæ Majoris ...	11	47	35 36	...	.....	.....	...	.....	.....	5	0·00	− 0·8
ε Corvi	12	3	111 54	1	− 0·02	+ 2·6	11	− 0·04	+ 0·6	7	− 0·01	+ 0·2
η Virginis	12	13	89 57	7	0·00	+ 0·6	6	+ 0·06	+ 0·1	10	+ 0·05	0·0

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1872.			1871.			1872.			1873.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	m.	° ′		s	″		s	″		s	″
α^1 Crucis	12	19	152 23	...	.....	.....	2	+0·30	+ 7·3	1	+0·41	+ 5·7
β Corvi	12	28	112 41	10	+0·10	− 0·7	4	+0·04	+ 0·3	4	+0·09	+ 0·5
γ Virginis [*Mean*] ...	12	35	90 46	3	−0·16	− 0·1	...	.....	.....	10	−0·05	− 0·2
12 Canum Venaticorum	12	50	50 59	4	+0·03	+ 0·8	2	−0·02	+ 0·8	9	−0·01	+ 0·8
θ Virginis	13	3	94 51	16	+0·01	+ 1·0	16	+0·01	+ 0·3	19	0·00	+ 0·6
α Virginis (*Spica*) ...	13	18	100 30	11	+0·01	+ 0·9	8	+0·05	+ 0·4	10	+0·02	+ 1·1
ζ Virginis	13	28	89 56	11	−0·07	+ 0·9	5	0·00	+ 0·6	20	−0·03	+ 1·2
η Ursæ Majoris ...	13	42	40 3	5	+0·05	− 1·0	1	−0·19	+ 5·1	1	−0·05	− 3·5
η Böotis	13	49	70 58	6	−0·02	+ 1·0	12	−0·05	+ 0·2	7	+0·01	− 0·1
τ Virginis	13	55	87 50	8	+0·01	− 0·1	10	+0·01	− 0·5	6	0·00	− 0·9
α Böotis (*Arcturus*) ...	14	10	70 9	4	−0·03	+ 2·2	11	+0·02	+ 1·1	3	+0·06	+ 0·3
ρ Böotis	14	26	59 4	3	+0·01	+ 0·9	6	−0·05	+ 0·4	2	0·00	+ 0·5
ϵ Böotis	14	39	62 23	2	−0·08	− 0·4	4	−0·03	− 0·5	4	−0·03	− 1·1
α^2 Libræ	14	44	105 30	5	−0·01	+ 1·5	8	−0·01	+ 0·4	7	+0·01	+ 0·8
β Ursæ Minoris ...	14	51	15 19	...	.....	.....	...	.....	.....	1	+0·43	0·0
ψ Böotis	14	59	62 33	4	−0·04	− 0·4	5	−0·06	− 0·1	3	−0·05	− 0·6
β Libræ	15	10	98 55	5	+0·07	+ 0·9	6	+0·03	+ 0·3	2	0·00	− 0·6
α Coronæ Borealis ...	15	29	62 51	5	+0·03	+ 0·9	7	−0·06	− 0·4	4	+0·01	+ 0·5
α Serpentis	15	38	83 10	3	−0·09	− 0·3	3	−0·02	− 0·3	7	−0·02	− 0·7
ζ Ursæ Minoris ...	15	49	11 49	...	.....	.....	1	+0·06	− 2·9	...	.....	.....
β^1 Scorpii	15	58	109 27	3	−0·08	− 0·2	4	+0·02	− 0·2	3	−0·01	− 0·4
δ Ophiuchi	16	8	93 22	4	−0·01	+ 1·4	6	+0·02	+ 1·6	4	+0·05	+ 1·3
α Scorpii (*Antares*) ...	16	22	116 9	8	+0·02	+ 0·9	4	+0·02	− 0·2	3	+0·05	− 1·2
α Trianguli Australis..	16	35	158 47	1	+0·22	+ 2·7	...	.....	.....	...	.....	.....
ζ Herculis	16	36	58 10	7	−0·04	+ 0·5	7	0·00	+ 0·8	3	0·00	+ 0·8
κ Ophiuchi	16	52	80 25	7	+0·06	+ 0·1	4	+0·02	− 0·3	2	+0·02	− 0·3
ϵ Ursæ Minoris ...	16	59	7 45	2	+0·16	− 0·3	8	+0·35	+ 4·0	4	+0·12	− 0·1
α Herculis	17	9	75 28	9	−0·03	− 0·3	4	−0·08	− 0·6	4	+0·01	− 0·3
θ Ophiuchi	17	14	114 52	5	+0·02	+ 1·0	2	+0·03	+ 0·7	2	+0·04	+ 0·5
β Draconis	17	28	37 36	...	.....	.....	...	.....	.....	1	−0·15	− 0·2
α Ophiuchi	17	29	77 21	7	+0·01	+ 0·5	6	0·00	+ 0·3	5	+0·02	+ 0·3
μ Herculis	17	41	62 12	9	−0·04	− 0·1	5	−0·06	− 0·2	4	−0·03	− 0·4
γ Draconis	17	54	38 30	2	−0·01	− 0·2	...	.....	.....	1	−0·09	− 0·2
μ^1 Sagittarii ...	18	6	111 5	8	+0·05	+ 0·2	7	+0·08	+ 0·5	8	+0·04	− 0·1
δ Ursæ Minoris ...	18	14	3 24	6	+0·04	+ 0·3	3	+0·21	− 0·4	4	−0·14	− 0·7

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1872.		1871.			1872.			1873.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h. *m.*	° ′		*s*	″		*s*	″		*s*	″
α Lyræ (*Vega*) ...	18 33	51 20	7	− 0·02	− 0·5	9	− 0·07	+ 0·3	5	− 0·04	− 0·1
β Lyræ	18 45	56 47	7	− 0·05	0·0	8	− 0·03	− 0·3	4	− 0·10	+ 0·2
ζ Aquilæ	19 0	76 20	12	+ 0·03	+ 0·9	8	+ 0·03	+ 0·9	4	+ 0·07	+ 0·8
ω Aquilæ	19 12	78 38	13	+ 0·03	− 1·1	4	+ 0·01	− 1·7	4	0·00	− 1·4
δ Aquilæ	19 19	87 8	11	+ 0·01	− 1·0	4	0·00	− 0·5	9	− 0·02	− 0·9
h^2 Sagittarii... ...	19 29	115 10	5	0·00	+ 1·6	3	+ 0·03	− 0·5	2	− 0·05	+ 0·3
γ Aquilæ	19 40	79 42	6	− 0·06	− 0·6	7	− 0·03	− 1·0	4	− 0·01	− 0·7
α Aquilæ (*Altair*) ...	19 45	81 28	5	− 0·01	− 2·0	4	− 0·01	− 1·2	2	− 0·02	− 0·8
β Aquilæ	19 49	83 55	9	− 0·01	− 0·2	6	+ 0·01	0·0	5	− 0·10	− 0·7
λ Ursæ Minoris ...	19 52	1 5	2	− 2·11	− 0·2	2	+ 0·24	− 1·2	1	− 0·82	− 0·5
α^2 Capricorni ...	20 11	102 56	4	− 0·02	+ 0·4	1	0·00	+ 0·2	7	0·00	+ 0·5
α Pavonis	20 16	147 9	2	+ 0·08	+ 2·9	...	.....	.....	1	− 0·18	+ 3·0
ρ Capricorni	20 22	108 14	11	+ 0·05	− 0·2	5	+ 0·10	− 0·2	11	+ 0·07	− 0·7
α Cygni	20 37	45 11	10	− 0·03	+ 0·3	2	− 0·01	+ 0·4	8	− 0·09	+ 0·1
32 Vulpeculæ ...	20 49	62 26	9	− 0·02	+ 0·8	6	− 0·01	− 0·3	10	− 0·05	+ 0·4
61^1 Cygni	21 1	51 53	...	.....	.....	...	.....	.....	1	+ 0·04	− 0·1
ζ Cygni	21 7	60 18	9	− 0·02	− 0·5	...	.....	.....	15	+ 0·01	− 0·5
α Cephei	21 16	27 57	...	.....	.....	...	.....	.....	1	− 0·11	− 1·6
β Aquarii	21 25	96 8	8	+ 0·04	− 0·3	5	+ 0·04	− 0·2	14	+ 0·09	− 0·3
β^3 Cephei	21 27	20 0	...	.....	.....	...	.....	.....	4	+ 0·17	− 0·7
ε Pegasi	21 38	80 43	4	− 0·01	− 1·1	7	− 0·04	− 0·5	4	− 0·05	− 1·2
16 Pegasi	21 47	64 41	3	− 0·08	− 0·2	10	− 0·07	+ 1·0	8	− 0·07	+ 0·3
α Aquarii	21 59	90 56	6	+ 0·04	− 0·4	4	+ 0·11	+ 0·7	2	0·00	− 0·6
α Gruis	22 0	137 35	...	.....	.....	...	.....	.....	7	+ 0·14	− 0·2
θ Aquarii	22 10	98 25	3	− 0·02	− 0·3	5	+ 0·04	− 1·5	3	− 0·02	− 1·0
η Aquarii	22 29	90 47	3	− 0·02	+ 0·1	6	− 0·03	+ 0·8	3	+ 0·05	− 0·3
ζ Pegasi	22 35	79 50	7	− 0·01	0·0	6	+ 0·04	− 0·2	11	+ 0·03	− 0·2
α Pis. Aus. (*Fomalhaut*)	22 51	120 18	3	+ 0·04	0·0	3	+ 0·06	+ 0·1	6	+ 0·06	− 0·7
α Pegasi (*Markab*) ...	22 58	75 29	4	− 0·04	− 1·0	5	− 0·03	+ 0·3	8	− 0·05	+ 0·3
γ Piscium	23 11	87 25	6	0·00	− 0·2	3	0·00	− 0·7	5	+ 0·05	− 0·7
κ Piscium	23 20	89 27	8	− 0·01	− 0·1	2	+ 0·04	− 0·2	5	+ 0·02	− 0·1
ι Piscium	23 33	85 4	10	− 0·01	− 0·2	8	− 0·01	− 0·6	2	− 0·01	− 2·2
δ Sculptoris	23 42	118 50	9	+ 0·04	+ 1·2	2	+ 0·14	+ 1·8	1	− 0·01	− 0·1
ω Piscium	23 53	83 51	10	− 0·03	− 0·3	6	+ 0·02	+ 0·1	3	− 0·02	− 0·3
Mean			(790)		+0·31	(766)		+0·27	(690)		+0·05

Errata in this and the three previous volumes.

Page.	No.	Subject.	For	Read
		In Madras Meridian Circle Observations for 1862, 63, *and* 64.		
33	62	Annual Precession in R. A. ...	3·4382	3·4366
,,	,,	,, P. D. ...	13·680	13·738
287	611	Sign of Secular Var. R. A. ...	+	−
302	882	Minutes of Mean R. A. ...	55	58
		In Madras Meridian Circle Observations for 1865, 66, *and* 67.		
197	266	Secular Var. ..... R. A. ...	0·0017	0·0007
270	544	Degrees of Mean P. D. ...	142	148
349	874	Annual Precession in P. D. ...	11·176	11·192
		In Madras Meridian Circle Observations for 1868, 69, *and* 70.		
xx	7	Pages of second erratum ...	,,	2 } 52 }
54	40	Name ...	1363	1303
79	166	Annual Precession in R. A. ...	3·6545	2·6545
145	27	,, P. D. ...	18·622	18·662
153	141	,, R. A. ...	3·4644	3·4647
,,	,,	,, P. D. ...	2·381	2·295
179	618	,, R. A. ...	1·2849	1·2649
209 } 248 }	403	Mean Polar Distance ...	145 57 52·8	145 58 19·5
235	157	Annual Precession in P. D. ...	0·680	0·702
,,	163	,, P. D. ...	0·013	0·018
,,	165	,, P. D. ...	0·400	0·403
,,	170	Secular Var. R. A. ...	0·0027	0·0007
257	536	Annual Precession in P. D. ...	7·326	7·315
,,	533	Annual Precession ...	2·1865	2·8165
,,	542	,, ...	8·626	8·826
		In Madras Meridian Circle Observations for 1871, 72, *and* 73.		
49	236	Annual Precession in R. A. ...	3·0477	3·0479
,,	245	,, ...	2·9132	2·8131
157	625	,, R. A. ...	3·0480	3·0482
159	638	,, P. D. ...	16·850	16·820
171	874	,, R. A. ...	3·9853	2·9853
200	370	Minutes of Mean P. D. ...	35	34
219	662	,, P. D. ...	17	16

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS,

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1871.

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
1		21 *Andromedae α, Alpherat.*			
Nov. 10	...	0 1 43·36	...	61 37 20·8	R
11	...	1 43·47	...	37 19·4	R
18	...	1 43·38	...	37 19·6	R
Dec. 15	...	1 43·42	...	37 19·2	M
16	...	1 43·51	...	37 18·8	M
2		*Lacaille* 9739.			
Oct. 13	7·6	0 2 25·71	...	130 27 17·9	M
3		*Lacaille* 9746.			
Sep. 29	7·9	0 3 9·86	...	146 54 35·0	M
Oct. 26	8·0	3 9·11	...	54 36·0	M
4		*Anon.*			
Nov. 16	9·4	0 5 19·75	...	126 15 45·2	M
5		88 *Pegasi γ, Algenib.*			
Sep. 30	...	0 6 35·78	...	75 32 2·5	M
Oct. 11	...	6 35·79	...	32 2·4	M
28	...	6 35·68	...	32 0·6	R
Nov. 15	...	6 35·64	...	32 2·4	M
Dec. 11	...	6 35·69	...	32 2·4	M
15	...	6 35·68	...	32 1·6	M
16	...	6 35·68	...	32 2·2	M
18	...	6 35·68	...	32 2·4	R
6		*Lalande* 421.			
Oct. 9	7·6	0 16 9·23	...	51 57 40·5	M
7		*O. A. N.* 317.			
Nov. 13	9·0	0 17 59·67	...	26 4 35·8	R
8		12 *Ceti.*			
Sep. 30	...	0 23 27·06	...	94 40 14·6	M
Oct. 7	...	23 27·88	...	40 15·1	M
13	...	23 27·89	...	40 14·0	M
Nov. 3	...	23 27·81	...	40 11·8	R
Nov. 4	...	0 23 27·31	...	94 40 14·9	R
10	...	23 27·33	...	40 15·1	R
15	...	23 27·29	...	40 14·7	M
16	...	23 27·31	...	40 15·6	M
23	...	23 27·15	...	40 15·5	M
24	...	23 26·99	4	40 15·6	M
Dec. 15	...	23 27·31	...	40 13·8	M
16	...	23 27·36	5	40 14·1	M
18	...	23 27·30	...	40 14·7	R
9		13 *Ceti.*			
Dec. 18	...	0 28 36·55	...	94 18 13·2	R
10		15 *Ceti.*			
Oct. 16	...	0 31 28·82	...	91 12 49·3	R
11		18 *Cassiopeae α, Var.* 2, *Shedir.*			
Nov. 13	...	0 33 11·95	4	34 10 14·6	M
12		*Taylor* 184.			
Nov. 24	6·0	0 34 8·18	6	95 3 37·3	M
13		*W. B. E.* 0·585.			
Nov. 16	6·9	0 34 55·97	...	94 56 29·8	M
14		16 *Ceti β*			
Sep. 30	...	0 37 6·69	...	108 41 41·6	M
Oct. 7	...	37 6·63	...	41 42·7	M
12	...	37 6·81	...	41 41·8	M
18	...	37 6·74	...	41 41·8	M
Nov. 3	...	37 6·74	...	41 40·7	R
4	...	37 6·71	...	41 41·5	R
10	...	37 6·73	...	41 43·3	R
18	...	37 6·77	...	41 42·6	M
23	...	37 6·81	...	41 43·7	M
Dec. 15	...	37 6·71	...	41 42·2	M
16	...	37 6·71	...	44 42·1	M
15		58 *Piscium.*			
Oct. 9	5·6	0 40 17·80	...	78 43 47·9	M
Nov. 18	...	40 17·67	...	43 48·4	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
16		60 *Piscium.*			
Nov. 11	...	0 40 43·33	...	83 57 49·9	R
17		20 *Ceti.*			
Oct. 26	...	0 46 24·98	...	91 50 43·6	M
18		*Anon.*			
Nov. 4	8·8	0 50 40·13	...	129 37 51·0	R
19		*Anon.*			
Nov. 11	9·0	0 52 10·36	...	130 39 45·5	R
18	8·9	52 10·33	6	39 45·9	M
20		*Lacaille* 271.			
Nov. 15	7·4	0 52 59·80	...	151 23 44·5	M
21		70 *Piscium.*			
Dec. 18	...	0 55 24·42	...	82 45 20·7	R
22		71 *Piscium* ϵ			
Oct. 12	...	0 56 15·04	...	82 48 15·6	M
28	...	56 15·07	...	48 18·4	R
Nov. 7	...	56 14·99	...	48 16·2	R
27	...	56 14·88	...	48 17·2	M
Dec. 7	...	56 14·93	...	48 18·0	M
9	...	56 15·03	...	48 16·3	M
12	...	56 14·92	...	48 17·3	M
13	...	56 15·03	...	48 14·3	M
20	...	56 14·89	...	48 17·8	R
23		29 *Ceti.*			
Oct. 9	...	1 1 20·58	...	88 40 56·3	M
24		33 *Ceti.*			
Dec. 20	...	1 3 55·30	...	88 14 20·2	R
25		1 *Ursae Minoris a, Polaris.*			
Oct. 21	...	1 11 37·60	3	1 22 43·4	R
Nov. 11	..	11 37·30	3	22 40·8	R
16	...	11 37·17	3	22 42·1	M
Dec. 11	...	11 37·08	2	22 43·2	M
		1 *Ursae Minoris a, Polaris—s.p.*			
Apl. 18	...	1 11 37·85	3	1 22 42·1	R
May 13	...	11 36·95	3	22 42·9	M
27	...	11 37·27	1	22 44·0	M
30	...	11 36·58	1	22 44·6	M
26		*Anon.*			
Nov. 18	7·0	1 15 16·30	...	150 45 9·0	M
27		44 *Ceti.*			
Oct. 14	...	1 17 33·17	5	98 40 45·3	R
28		45 *Ceti* θ^1			
Nov. 4	...	1 17 34·49	...	98 51 0·5	R
17	...	17 34·51	...	51 1·1	M
24	...	17 34·46	...	51 0·7	M
Dec. 7	...	17 34·54	...	50 59·9	M
14	...	17 34·43	...	50 59·6	M
29		93 *Piscium* ρ			
Nov. 27	...	1 19 18·32	...	71 30 1·6	M
30		98 *Piscium* μ			
Oct. 26	...	1 23 25·58	...	84 31 18·7	M
27	...	23 25·73	...	31 19·0	M
31		*Bonn* $+2^\circ.221$.			
Nov. 4	8·9	1 23 49·75	4	87 41 45·8	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
32		99 *Piscium* η			
Nov. 8	...	1 24 34·92	...	75 19 9·8	R
16	...	24 34·93	...	19 14·0	M
17	...	24 34·96	...	19 13·5	M
20	...	24 34·97	...	19 14·4	M
Dec. 18	...	24 34·95	...	19 13·1	R
20	...	24 35·05	...	19 12·4	R
33		102 *Piscium* π			
Nov. 4	...	1 30 16·00	...	78 31 5·5	R
34		*Anon.*			
Nov. 8	8·7	1 31 7·91	...	130 48 23·9	R
35		*a Eridani, Achernar.*			
Oct. 9	...	1 32 54·57	...	147 53 35·1	M
Nov. 27	...	32 54·65	6	53 36·7	M
Dec. 18	...	32 54·49	...	53 37·2	R
36		106 *Piscium* ν			
Oct. 14	...	1 34 43·10	...	85 9 57·9	R
26	...	34 43·17	...	9 57·3	M
27	...	34 43·18	...	9 57·2	M
Nov. 16	...	34 43·09	...	9 59·4	M
17	...	34 43·08	...	9 58·2	M
18	...	34 43·08	...	9 58·5	M
20	...	34 43·16	...	9 58·5	M
24	...	34 43·15	5	9 58·6	M
Dec. 7	...	34 43·15	...	9 58·3	M
12	...	34 43·15	...	9 58·2	M
21	...	34 43·15	...	9 58·4	R
37		*Lacaille* 507.			
Nov. 8	...	1 37 22·94	5	151 26 21·2	R
38		110 *Piscium* o			
Sep. 29	...	1 38 35·19	...	81 29 33·5	M
Dec. 20	...	38 35·03	...	29 33·6	R
21	...	38 34·99	5	29 35·4	R
39		6 *Arietis* β			
Nov. 2	...	1 47 31·05	...	69 49 25·6	R
20	...	47 30·82	...	49 27·0	M
Dec. 12	...	47 31·04	...	49 26·7	M
13	...	47 31·03	...	49 26·5	M
14	...	47 31·08	5	49 26·8	M
15	...	47 31·10	6	49 27·3	M
40		*Anon.*			
Nov. 10	9·0	1 49 32·95	5	126 5 29·6	R
41		8 *Arietis* ι			
Nov. 8	...	1 50 18·31	...	72 48 45·6	R
42		*W. B. E.* 1·940.			
Nov. 4	...	1 53 39·22	5	86 14 12·7	R
27	7·0	53 39·38	...	14 15·6	M
43		13 *Arietis* α			
Oct. 30	...	1 59 54·19	...	67 8 56·8	R
Nov. 2	...	59 54·30	...	8 54·6	R
13	...	59 54·25	...	8 56·5	R
Dec. 13	...	59 54·21	...	8 56·1	M
44		*Anon.*			
Nov. 10	8·8	2 2 12·56	...	130 0 28·5	R
45		65 *Ceti* ξ^1			
Oct. 27	...	2 6 9·77	...	81 45 35·5	M
28	...	6 9·75	...	45 35·3	R
46		*Bonn* +2°.351.			
Nov. 16	9·5	2 7 12·06	5	87 4 54·8	M
47		67 *Ceti.*			
Oct. 30	...	2 10 32·99	...	97 1 7·0	R
Nov. 2	...	10 32·85	...	1 4·9	R
13	...	10 33·04	...	1 4·0	R
18	...	10 33·03	5	1 4·7	M
27	...	10 32·97	...	1 5·8	M
Dec. 31	...	10 32·98	...	1 3·9	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
48		*Anon.*			
Nov. 17	9·0	2 12 57·64	...	93 33 39·5	M
49		73 *Ceti* 5^2			
Oct. 30	...	2 21 18·17	...	82 7 13·1	R
Nov. 7	...	21 18·15	...	7 12·0	R
10	...	21 18·09	6	7 11·1	R
16	...	21 18·16	...	7 13·4	M
Dec. 9	...	21 18·10	...	7 9·5	M
21	...	21 18·08	...	7 11·3	R
31	...	21 18·18	...	7 9·7	M
50		*R. P. L.* 26.			
Nov. 27	...	2 24 17·48	1	3 31 2·4	M
51		*Anon.*			
Nov. 18	8·9	2 28 25·26	6	129 44 36·4	M
52		*Anon.*			
Dec. 19	9·2	2 30 58·12	5	147 33 4·9	R
53		*Anon.*			
Oct. 30	10·0	2 31 26·78	5	151 37 36·5	R
54		32 *Arietis* ν			
Nov. 4	...	2 31 29·57	5	68 35 49·2	R
55		86 *Ceti* γ			
Nov. 17	...	2 36 37·06	...	87 18 33·9	M
Dec. 29	...	36 37·16	...	18 33·9	M
31	...	36 37·02	...	18 33·2	M
56		87 *Ceti* μ			
Oct. 27	...	2 37 58·11	...	80 25 55·4	M
Nov. 25	...	37 58·35	5	25 56·8	M
Dec. 21	...	37 58·16	...	25 57·9	R
57		*Anon.*			
Oct. 30	10·0	2 41 53·10	...	151 0 57·9	R
58		42 *Arietis* π			
Nov. 4	...	2 42 5·61	...	73 4 23·2	R
59		*Anon.*			
Oct. 28	9·0	2 52 32·23	6	150 15 25·6	R
60		91 *Ceti* λ			
Nov. 25	...	2 52 48·26	6	81 36 28·7	M
61		92 *Ceti* α, *Menkar.*			
Dec. 19	...	2 55 32·32	...	86 25 7·5	R
21	...	55 32·24	...	25 5·6	R
31	...	55 32·33	...	25 4·4	M
62		*Anon.*			
Nov. 16	9·0	2 59 6·90	4	130 36 43·9	M
63		*Taylor* 1052.			
Nov. 11	5·7	3 0 34·67	5	150 14 23·1	R
64		57 *Arietis* δ			
Nov. 28	...	3 4 15·32	...	70 45 48·7	M
Dec. 19	...	4 15·32	...	45 49·4	R
65		*Taylor* 1112.			
Nov. 27	7·9	3 10 32·89	...	129 28 47·0	M
66		*Taylor* 1113.			
Nov. 18	8·0	3 10 33·57	6	131 42 35·4	M
67		33 *Persei* a			
Dec. 14	...	3 15 7·38	...	40 36 1·7	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
68 1 *Tauri o, Var.* 5.					
Oct. 28	...	3 17 52·42	...	81 25 38·3	R
69 2 *Tauri* ξ					
Dec. 19	...	3 20 10·73	5	80 43 9·5	R
70 *Anon.*					
Oct. 30	7·8	3 30 21·11	...	151 49 36·6	R
Nov. 15	6·9	30 21·13	6	49 35·1	M
71 25 *Tauri η, Alcyone.*					
Jan. 2	...	3 39 49·21	...	66 17 46·1	R
11	...	39 49·09	6	17 45·4	R
Nov. 25	...	39 49·13	...	17 46·1	M
28	...	39 49·16	...	17 46·3	M
Dec. 9	...	39 49·15	...	17 45·9	M
14	...	39 49·14	...	17 45·3	M
72 33 *Tauri.*					
Nov. 25	...	3 49 25·08	...	67 12 5·6	M
73 *Anon.*					
Oct. 30	9·0	3 50 59·76	...	147 27 58·7	R
74 34 *Eridani* γ^1					
Jan. 2	...	3 52 0·66	...	103 52 38·3	R
4	...	52 0·61	...	52 40·0	R
5	...	52 0·58	...	52 40·3	R
6	...	52 0·67	...	52 40·7	R
11	...	52 0·63	5	52 38·7	R
Nov. 28	...	52 0·69	5	52 37·4	M
Dec. 16	...	52 0·63	...	52 37·6	M
75 *Anon.*					
Dec. 21	9·5	3 53 20·24	...	128 24 11·6	R
76 37 *Tauri* A^1					
Oct. 30	...	3 57 4·26	...	68 16 23·1	R
Nov. 25	...	57 4·24	...	16 23·9	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
77 38 *Eridani* o^1					
Jan. 2	...	4 5 34·01	...	97 10 35·5	R
4	...	5 34·13	...	10 35·9	R
5	...	5 34·13	...	10 36·4	R
6	...	5 34·13	...	10 36·3	R
11	...	5 34·17	4	10 35·4	R
Nov. 25	...	5 34·12	...	10 34·4	M
28	...	5 34·12	...	10 34·5	M
Dec. 16	...	5 34·08	...	10 33·2	M
78 74 *Tauri* ε					
Jan. 4	...	4 21 5·11	...	71 6 31·8	R
5	...	21 5·14	...	6 31·0	R
14	...	21 5·16	...	6 29·8	R
20	...	21 5·23	...	6 29·3	R
Nov. 7	...	21 5·10	5	6 30·3	R
25	...	21 5·13	...	6 30·4	M
27	...	21 5·19	...	6 31·0	M
29	...	21 5·11	...	6 30·2	M
Dec. 16	...	21 4·88	...	6 30·1	M
79 87 *Tauri a, Aldebaran.*					
Jan. 14	...	4 28 31·18	...	73 45 10·3	R
20	...	28 31·26	...	45 9·3	R
23	...	28 31·22	...	45 10·5	M
Nov. 27	...	28 31·15	...	45 10·8	M
29	...	28 31·21	...	45 10·9	M
Dec. 15	...	28 31·18	6	45 9·5	M
80 94 *Tauri* τ					
Oct. 30	...	4 34 30·30	...	67 17 36·6	R
81 97 *Tauri i.*					
Oct. 30	...	4 43 49·85	...	71 22 57·1	R
82 3 *Aurigae* ι					
Nov. 29	...	4 48 35·71	...	57 2 28·1	M
Dec. 19	...	48 35·62	5	2 30·3	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
83		*2 Leporis ϵ*			
Jan. 17	...	5 0 0·06	...	112 32 47·7	R
84		*Anon.*			
Jan. 28	8·6	5 6 15·66	...	131 45 ~~21·1~~ 11·8	M
85		*19 Orionis β, Rigel.*			
Feb. 2	...	5 8 20·27	...	98 21 10·7	M
Dec. 15	...	8 20·24	...	21 10·3	M
86		*Anon.*			
Feb. 4	9·3	5 14 47·89	...	75 6 2·2	M
87		*112 Tauri β*			
Jan. 6	...	5 18 8·27	...	61 30 19·2	R
17	...	18 8·27	...	30 19·0	R
25	...	18 8·38	...	30 17·0	M
28	...	18 8·33	...	30 16·0	M
Feb. 1	...	18 8·41	...	30 16·4	M
88		*115 Tauri.*			
Feb. 2	6·0	5 19 38·60	...	72 9 4·8	M
89		*119 Tauri.*			
Nov. 27	...	5 24 39·03	...	71 30 16·6	M
28	...	24 39·04	...	30 16·7	M
90		*34 Orionis δ, Var.* 1.			
Jan. 17	...	5 25 25·02	...	90 23 50·2	R
20	...	25 24·95	...	23 51·4	R
23	...	25 25·01	...	23 50·0	M
31	...	25 25·01	...	23 50·4	M
Feb. 3	...	25 25·00	...	23 50·7	M
4	...	25 24·87	5	23 49·7	M
91		*11 Leporis a*			
Jan. 28	...	5 27 2·44	...	107 54 58·6	M
92		*46 Orionis ϵ*			
Jan. 25	...	5 29 40·04	...	91 17 13·0	M
Feb. 2	...	29 40·10	...	17 11·5	M
93		*123 Tauri* 3			
Feb. 1	...	5 29 56·30	...	68 56 20·0	M
Nov. 27	...	28 56·15	5	56 20·6	M
94		*a Columbae.*			
Jan. 20	...	5 34 58·65	...	124 8 40·5	R
31	...	34 58·65	...	8 40·2	M
Feb. 3	...	34 58·66	...	8 40·4	M
16	...	34 58·73	...	8 39·9	M
95		*54 Orionis* χ^1			
Jan. 5	...	5 46 44·58	...	69 45 3·9	R
Dec. 26	...	46 44·59	...	45 5·3	R
96		*58 Orionis a, Var.* 2, *Betelgeux.*			
Jan. 23	...	5 48 11·20	...	82 37 10·9	M
25	...	48 11·27	...	37 9·8	M
28	...	48 11·30	...	37 9·0	M
31	...	48 11·31	...	37 10·1	M
Feb. 4	...	48 11·21	...	37 9·4	M
Nov. 30	...	48 11·33	...	37 10·0	M
97		*Bonn* +26°. 1016.			
Jan. 20	9·2	5 49 54·86	...	63 50 6·3	R
98		*R. P. L.* 43.			
Feb. 13	...	5 55 7·80	1	3 14 16·8	M
99		*1 Geminorum.*			
Jan. 5	...	5 56 16·63	...	66 43 59·6	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
100		*67 Orionis ν*			
Jan. 7	...	6 0 12·36	...	75 13 8·1	R
14	...	0 12·88	...	13 7·8	R
23	...	0 12·49	...	13 7·1	M
25	...	0 12·37	...	13 8·0	M
28	...	0 12·42	...	13 5·8	M
31	...	0 12·49	...	13 7·8	M
Feb. 1	...	0 12·35	...	13 6·5	M
16	...	0 12·46	...	13 6·9	M
Dec. 29	...	0 12·31	...	13 8·0	M
31	...	0 12·38	...	13 7·4	M
101		*7 Geminorum η, Var.* 7.			
Nov. 28	...	6 7 5·37	...	67 27 31·3	M
29	...	7 5·40	5	27 31·0	M
102		*13 Geminorum μ*			
Feb. 1	...	6 15 9·33	...	67 25 23·5	M
2	...	15 9·36	...	25 23·0	M
3	...	15 9·27	...	25 26·8	M
18	...	15 9·31	...	25 23·7	M
Nov. 28	...	15 9·29	...	25 24·9	M
30	...	15 9·38	...	25 24·5	M
Dec. 31	...	15 9·08	4	25 24·2	M
103		*18 Geminorum ν*			
Feb. 1	...	6 21 18·20	...	69 42 32·3	M
2	...	21 18·05	...	42 32·1	M
104		*24 Geminorum γ*			
Jan. 7	...	6 30 15·69	...	78 29 38·0	M
Feb. 4	...	30 15·66	...	29 37·6	M
13	...	30 15·55	...	29 36·9	M
16	...	30 15·64	...	29 36·5	M
18	...	30 15·55	...	29 36·7	M
21	...	30 15·58	...	29 36·6	M
Nov. 30	...	30 15·63	...	29 37·4	M
Dec. 1	...	30 15·62	...	29 35·7	M
29	...	30 15·51	...	29 37·7	M
31	...	30 15·70	...	29 36·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
105		*Lacaille* 2406.			
Feb. 1	7·9	6 34 17·33	4	147 25 52·6	M
106		*27 Geminorum ε*			
Jan. 6	...	6 35 59·80	...	64 44 41·2	R
107		*51 (Hev.) Cephei.*			
Jan. 20	...	6 39 14·96	2	2 45 40·4	R
25	...	39 14·27	1	45 39·8	M
Feb. 16	...	39 14·29	1	45 40·5	M
21	...	39 15·54	3	45 40·4	M
Dec. 1	...	39 13·80	1	45 40·9	M
		51 (Hev.) Cephei—s.p.			
July 26	...	6 39 14·37	3	2 45 43·4	M
Aug. 14	...	39 14·56	3	45 43·7	M
17	...	39 14·31	3	45 43·9	R
108		*9 Canis Majoris a, Sirius.*			
Jan. 7	...	6 39 27·77	...	106 32 36·4	R
Dec. 26	...	39 27·55	4	32 34·8	R
109		*W. B. N. VI.* 1272.			
Jan. 20	9·0	6 42 34·01	...	70 39 38·3	R
23	9·1	42 33·95	...	39 39·4	M
31	9·3	42 33·85	...	39 41·1	M
Feb. 18	9·1	42 33·85	...	39 39·8	M
110		*39 Geminorum.*			
Jan. 14	...	6 50 50·19	...	63 45 10·0	R
111		*21 Canis Majoris ε*			
Feb. 16	...	6 53 33·25	3	118 47 54·3	M
18	...	53 33·52	...	47 53·7	M
21	...	53 33·36	...	47 53·3	M
24	...	53 33·42	...	47 53·5	R
Dec. 1	...	53 33·25	...	47 53·3	M
2	...	53 33·37	...	47 53·4	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
112	43 *Geminorum* 3^2, *Var.* 1.				
Jan. 5	...	6 56 27·34	...	69 14 37·8	R
6	...	56 27·39	...	14 38·7	R
Mar. 2	...	56 27·47	5	14 36·0	R
Dec. 26	...	56 27·46	...	14 38·2	R
113	23 *Canis Majoris* γ				
Feb. 13	...	6 57 55·40	6	105 26 39·6	M
Dec. 1	...	57 55·26	...	26 39·9	M
114	*W. B. N. VI.* 1762.				
Jan. 25	8·5	6 58 50·49	...	70 55 25·9	M
115	*Bonn* +23°. 1604.				
Jan. 20	9·2	6 59 37·08	5	67 0 31·8	R
116	*Bonn* +29°. 1482.				
Feb. 21	...	7 6 5·27	...	60 54 13·1	M
117	*W. B. N. VII.* 206.				
Jan. 20	8·5	7 7 47·30	...	70 57 51·9	R
23	8·0	7 47·40	...	57 53·8	M
28	8·6	7 47·44	...	57 51·1	M
Feb. 16	8·0	7 47·31	5	57 52·3	M
24	8·2	7 47·17	...	57 51·6	R
118	55 *Geminorum* δ				
Feb. 1	...	7 12 25·08	...	67 46 58·3	M
2	...	12 25·05	...	46 58·1	M
3	...	12 25·16	...	46 58·8	M
13	...	12 25·03	...	46 58·8	M
18	...	12 25·00	...	46 59·0	M
Mar. 3	...	12 25·07	...	46 58·5	R
Nov. 29	...	12 25·06	...	46 58·0	M
30	...	12 24·98	...	46 59·0	M
Dec. 2	...	12 25·05	...	46 59·0	M
26	...	12 25·10	...	47 0·8	R
119	60 *Geminorum* ι				
Feb. 2	...	7 17 42·68	...	61 56 53·4	M
120	*Radcliffe* 1959.				
Jan. 17	7·5	7 19 8·57	5	41 49 13·8	R
121	66 *Geminorum* α^2, *Castor.*				
Feb. 13	...	7 26 21·97	...	57 49 58·0	M
21	...	26 21·93	...	49 52·9	M
Mar. 3	...	26 21·99	...	49 54·0	R
Dec. 2	...	26 22·02	...	49 53·5	M
122	*Taylor* 3133.				
Feb. 18	6·7	7 31 24·34	...	65 29 15·0	M
123	10 *Canis Minoris* α, *Procyon.*				
Mar. 2	...	7 32 32·81	...	84 26 48·4	R
124	77 *Geminorum* κ				
Feb. 1	...	7 36 39·53	...	65 17 42·0	M
Mar. 3	...	36 39·44	...	17 42·5	R
125	*Anon.*				
Feb. 21	7·9	7 37 1·61	...	130 51 50·4	M
126	78 *Geminorum* β, *Pollux.*				
Feb. 6	...	7 37 25·30	...	61 39 53·4	M
24	...	37 25·11	...	39 53·4	R
Mar. 2	...	37 25·21	...	39 53·8	R
127	*R. P. L.* 49.				
Jan. 28	...	7 45 42·49	8	5 34 42·0	M
Feb. 2	...	45 42·85	8	34 41·9	M
128	*Anon.*				
Feb. 21	8·0	7 47 11·03	5	153 21 50·1	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
129		*Anon.*			
Feb. 6	8·0	7 52 34·26	...	151 31 45·1	M
130		6 *Cancri.*			
Jan. 9	...	7 55 35·38	...	61 50 47·1	R
Mar. 16	...	55 35·45	...	50 47·6	R
131		10 *Cancri* μ^2			
Mar. 3	...	8 0 10·27	...	68 2 46·6	R
Nov. 30	...	0 10·28	...	2 46·2	M
Dec. 1	...	0 10·34	...	2 45·7	M
132		15 *Argûs.*			
Feb. 24	...	8 2 3·10	...	113 56 3·4	R
133		14 *Cancri* ψ^2			
Jan. 7	...	8 2 40·78	...	64 6 15·8	R
134		19 *Cancri* λ			
Mar. 22	...	8 12 51·94	...	65 34 26·3 27·3	M
135		*Anon.*			
Feb. 24	9·0	8 12 57·06	5	130 36 33·5	R
136		33 *Cancri* η			
Feb. 3	...	8 25 14·86	...	69 7 22·6	M
4	...	25 14·79	...	7 21·2	M
6	...	25 14·67	...	7 23·7	M
Mar. 21	...	25 14·83	...	7 20·9	M
22	...	25 14·76	...	7 21·8	M
24	...	25 14·72	...	7 21·9	M
25	...	25 14·78	...	7 21·5	M
Nov. 30	...	25 14·69	...	7 22·7	M
Dec. 4	...	25 14·65	...	7 21·9	M
137		43 *Cancri* γ			
Mar. 3	...	8 35 49·18	...	68 4 11·4	R
138		47 *Cancri* δ			
Feb. 3	...	8 37 21·21	...	71 22 24·7	M
139		50 *Cancri* A^2			
Feb. 18	...	8 39 51·76	...	77 25 7·7	M
140		11 *Hydrae* ϵ			
Jan. 9	...	8 39 56·58	...	83 6 35·8	R
Feb. 21	...	39 56·61	...	6 34·2	M
24	...	39 56·54	...	6 34·8	R
Mar. 15	...	39 56·60	5	6 35·7	R
16	...	39 56·62	...	6 35·3	R
25	...	39 56·53	...	6 34·2	M
141		*f Velorum.*			
Feb. 7	...	8 46 10·86	...	136 2 53·1	M
Mar. 21	...	46 10·88	...	2 51·8	M
142		*R. P. L.* 60—*s.p.*			
Sep. 4	...	8 47 48 1·56	3	5 18 29·1	R
143		77 *Cancri* ξ			
Dec. 1	...	9 1 56·45	...	67 26 4·6	M
2	...	1 56·37	...	26 5·2	M
144		79 *Cancri.*			
Mar. 14	...	9 2 55·97	...	67 28 53·6	R
145		83 *Cancri.*			
Feb. 4	...	9 11 46·78	...	71 44 58·0	M
6	...	11 46·72	...	44 57·8	M
7	...	11 46·73	...	45 0·2	M
Mar. 14	...	11 46·71	...	44 59·1	R
15	...	11 46·69	...	45 0·2	R
16	...	11 46·71	...	44 58·0	R
18	...	11 46·48	...	45 0·4	R
20	...	11 46·66	...	45 0·8	R
21	...	11 46·75	...	44 58·2	M
22	...	11 46·68	...	44 58·7	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
Mar. 23	...	9 11 46·72	...	71 44 59·0	M
24	...	11 46·70	...	44 59·8	M
25	...	11 46·73	...	44 58·8	M
27	...	11 46·78	4	44 59·1	R
Apl. 1	...	11 46·74	...	44 58·4	R
Dec. 1	...	11 46·83	...	44 58·6	M
4	...	11 46·68	...	44 57·8	M
5	...	11 46·63	4	44 59·0	M
146		*Anon.*			
Mar. 29	10·0	9 13 19·54	5	70 33 54·7	R
147		30 *Hydrae a, Var.* 2.			
Jan. 9	...	9 21 14·86	...	98 6 4·5	R
Feb. 7	...	21 14·75	...	6 3·4	M
Mar. 6	...	21 14·85	...	6 3·9	R
14	...	21 14·93	...	6 4·0	R
15	...	21 14·88	...	6 4·6	R
20	...	21 14·95	...	6 4·3	R
22	...	21 14·99	...	6 3·4	M
23	...	21 14·80	...	6 3·7	M
24	...	21 14·87	...	6 3·4	M
27	...	21 14·85	...	6 4·1	R
148		4 *Leonis* λ			
Feb. 4	...	9 24 21·38	5	66 27 53·2	M
Apl. 1	...	24 21·38	...	27 52·4	R
149		16 *Leonis* ψ			
Jan. 9	...	9 36 42·13	...	75 23 21·4	R
150		17 *Leonis* ε			
Feb. 7	...	9 38 31·59	...	65 38 0·7	M
8	...	38 31·55	...	37 59·7	M
Mar. 4	...	38 31·47	...	37 59·4	R
10	...	38 31·43	...	37 59·8	R
11	...	38 31·48	...	37 59·6	R
21	...	38 31·49	...	37 59·8	M
22	...	38 31·40	...	37 59·8	M
23	...	38 31·53	...	37 59·2	M
24	...	38 31·54	...	37 59·1	M
29	...	38 31·52	...	37 58·8	R
151		*R. P. L.* 70—*s.p.*			
Sep. 29	...	9 47 33·57	8	5 27 49·8	M
Oct. 18	...	47 33·18	8	27 48·8	M
152		27 *Leonis* ν			
Dec. 2	...	9 51 17·09	...	76 56 27·4	M
153		29 *Leonis* π			
Feb. 8	...	9 53 23·68	...	81 20 17·0	M
Mar. 6	...	53 23·69	...	20 17·5	R
14	...	53 23·65	...	20 16·9	R
15	...	53 23·63	...	20 17·5	R
18	...	53 23·75	...	20 18·7	R
20	...	53 23·75	...	20 17·9	R
21	...	53 23·62	...	20 18·6	M
23	...	53 23·70	...	20 18·2	M
27	...	53 23·65	...	20 18·7	R
28	...	53 23·67	4	20 16·5	R
29	...	53 23·68	...	20 16·5	R
30	...	53 23·68	...	20 17·8	R
Dec. 5	...	53 23·60	...	20 17·1	M
154		30 *Leonis* η			
Dec. 2	...	10 0 17·84	6	72 36 34·6	M
155		32 *Leonis a, Regulus.*			
Feb. 6	...	10 1 30·00	...	77 24 12·2	M
8	...	1 29·91	..	24 13·6	M
Mar. 10	...	1 30·08	...	24 13·6	R
17	...	1 29·99	...	24 13·6	R
28	...	1 30·03	5	24 13·2	R
29	...	1 30·01	...	24 12·8	R
30	...	1 30·08	...	24 12·4	R
31	...	1 30·04	...	24 12·6	R
Apl. 1	...	1 30·00	...	24 14·7	R
8	...	1 30·04	...	24 12·5	R
10	...	1 29·94	5	24 11·8	R
Dec. 5	...	1 30·03	...	24 12·1	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
156		*R. P. L.* 72—*s.p.*			
Oct. 3	...	10 10 30·27	3	5 5 44·7	M
157		41 *Leonis* γ^1			
Mar. 4	...	10 12 51·43	...	69 30 25·9	R
8	...	12 51·37	...	30 26·3	R
9	...	12 51·46	...	30 27·4	R
10	...	12 51·40	...	30 26·1	R
11	...	12 51·48	...	30 27·1	R
13	...	12 51·38	...	30 27·3	R
14	...	12 51·36	...	30 26·0	R
18	...	12 51·31	...	30 27·1	R
20	...	12 51·32	...	30 25·5	R
27	...	12 51·36	...	30 25·9	R
28	...	12 51·38	...	30 25·5	R
30	...	12 51·42	...	30 26·9	R
31	...	12 51·42	...	30 25·1	R
Apl. 3	...	12 51·36	...	30 27·5	R
4	...	12 51·40	...	30 24·7	R
5	...	12 51·34	...	30 24·6	R
8	...	12 51·43	...	30 26·4	R
10	...	12 51·43	5	30 26·0	R
158		47 *Leonis* ρ			
Jan. 9	...	10 26 1·07	...	80 1 51·7	R
Mar. 6	...	26 1·00	...	1 49·2	R
7	...	26 0·93	...	1 48·5	R
8	...	26 1·02	...	1 49·8	R
9	...	26 1·06	...	1 50·8	R
10	...	26 1·11	...	1 51·6	R
11	...	26 1·08	...	1 50·9	R
13	...	26 1·07	...	1 53·0	R
18	...	26 1·14	...	1 49·9	R
31	...	26 1·03	...	1 48·6	R
Apl. 1	...	26 1·00	...	1 49·6	R
4	...	26 1·07	...	1 48·9	R
5	...	26 1·05	...	1 49·9	R
8	...	26 1·02	...	1 49·4	R
10	...	26 1·05	...	1 50·0	R
11	...	26 1·03	...	1 49·5	R
19	...	26 1·05	...	1 50·8	R
24	...	26 1·08	...	1 49·9	M
26	...	26 1·09	...	1 49·5	M
Dec. 4	...	26 1·14	...	1 50·0	M
159		53 *Leonis l*			
Jan. 9	...	10 42 28·55	4	78 46 22·2	R
Feb. 8	...	42 28·55	...	46 22·8	M
Mar. 4	...	42 28·49	...	46 22·3	R
6	...	42 28·46	...	46 23·0	R
7	...	42 28·51	...	46 22·0	R
8	...	42 28·58	...	46 23·4	R
9	...	42 28·43	5	46 24·0	R
13	...	42 28·53	...	46 23·2	R
17	...	42 28·60	4	46 22·2	R
Apl. 3	...	42 28·53	...	46 22·5	R
5	...	42 28·57	...	46 22·5	R
10	...	42 28·54	...	46 22·4	R
11	...	42 28·50	...	46 22·1	R
12	...	42 28·53	...	46 23·8	R
14	...	42 28·48	...	46 24·3	R
15	...	42 28·47	...	46 24·0	R
17	...	42 28·42	...	46 24·4	R
19	...	42 28·43	...	46 23·3	R
24	...	42 28·60	..	46 22·9	M
25	...	42 28·53	...	46 22·4	M
26	...	42 28·51	...	46 22·3	M
27	...	42 28·56	...	46 21·4	M
28	...	42 28·51	...	46 22·9	M
29	...	42 28·54	...	46 22·6	M
May 1	...	42 28·52	...	46 22·9	M
Dec. 5	...	42 28·46	...	46 22·0	M
160		*Anon.*			
Apl. 4	9·5	10 42 58·32	5	148 58 14·0	R
161		*R. P. L.* 79.			
Mar. 22	...	10 57 18·14	1	1 89 37·2	M
162		63 *Leonis* χ			
Feb. 6	...	10 58 21·58	5	81 58 1·0	M
Mar. 17	...	58 21·71	...	58 1·7	R
28	...	58 21·72	...	58 1·2	R
Apl. 8	...	58 21·70	...	58 0·6	R
11	...	58 21·67	...	58 1·1	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
Apl. 12	...	10 58 21·69	...	81 58 1·0	R
13	...	58 21·71	...	58 4·4	R
14	...	58 21·69	...	58 1·0	R
15	...	58 21·69	...	58 1·2	R
17	...	58 21·63	...	58 1·3	R
18	...	58 21·69	...	58 1·4	R
20	...	58 21·71	...	58 2·0	R
21	...	58 21·67	...	58 2·3	M
22	...	58 21·63	...	58 1·8	M
24	...	58 21·67	...	58 2·0	M
25	...	58 21·71	...	58 0·8	M
26	...	58 21·65	...	58 1·0	M
27	...	58 21·68	...	58 1·4	M
28	...	58 21·69	...	58 1·7	M
29	...	58 21·73	...	58 1·8	M
May 1	...	58 21·74	...	58 0·9	M
2	...	58 21·66	...	58 4·3	M
3	...	58 21·64	...	58 1·0	M
163		*Lalande* 21371.			
Mar. 23	7·7	11 3 52·43	...	77 59 56·4	M
164		68 *Leonis* δ			
Mar. 17	...	11 7 14·59	...	68 46 12·1	R
Apl. 12	...	7 14·66	...	46 12·5	R
13	...	7 14·68	...	46 12·1	R
14	...	7 14·70	...	46 12·7	R
15	...	7 14·71	...	46 12·6	R
18	...	7 14·61	...	46 12·5	R
20	...	7 14·67	...	46 12·5	R
21	...	7 14·65	...	46 13·4	M
22	...	7 14·66	...	46 13·4	M
24	...	7 14·56	...	46 12·7	M
25	...	7 14·64	...	46 12·8	M
26	...	7 14·69	...	46 12·9	M
28	...	7 14·66	...	46 13·6	M
29	...	7 14·72	...	46 14·1	M
May 1	...	7 14·59	...	46 13·5	M
2	...	7 14·65	...	46 13·4	M
3	...	7 14·71	...	46 13·4	M
165		12 *Crateris* δ			
Apl. 17	...	11 12 53·64	...	104 4 52·2	R
18	...	12 53·65	...	4 52·5	R
19	...	12 53·60	...	4 51·8	R
20	...	12 53·57	...	4 52·1	R
May 3	...	12 53·57	...	4 52·0	M
166		*Taylor* 6072.			
Apl. 8	8·0	11 14 20·17	...	84 24 45·1	R
10	...	14 20·16	4	24 45·1	R
11	7·5	14 20·05	...	24 45·4	R
12	8·0	14 20·14	...	24 46·6	R
13	8·0	14 20·13	...	24 47·1	R
14	8·5	14 20·00	...	24 46·8	R
21	7·0	14 20·02	4	24 46·2	M
22	7·1	14 20·00	3	24 46·9	M
24	7·0	14 20·08	...	24 45·7	M
25	7·1	14 20·14	...	24 45·8	M
26	7·0	14 20·11	...	24 45·4	M
27	7·1	14 20·06	...	24 46·0	M
28	7·1	14 20·00	4	24 46·1	M
29	7·3	14 20·24	5	24 46·5	M
167		77 *Leonis* σ			
Feb. 6	...	11 14 28·89	...	88 15 50·6	M
168		78 *Leonis* ι			
Apl. 3	...	11 17 11·77	5	78 45 37·6	R
Dec. 5	...	17 11·01	...	45 38·5	M
169		*Lalande* 21819.			
Feb. 8	7·9	11 21 19·08	...	86 27 34·4	M
170		*Anon.*			
May 1	8·5	11 26 55·63	...	151 6 22·0	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
171		91 *Leonis v*			
Mar. 7	...	11 30 20·69	...	90 6 41·7	R
Apl. 4	...	30 20·65	5	6 43·7	R
6	...	30 20·67	...	6 43·9	R
May 13	...	30 20·72	...	6 42·8	M
172		*W. B. E. XI.* 573.			
May 2	7·7	11 33 51·15	...	84 8 43·4	M
11	8·0	33 51·11	...	8 42·1	M
31	7·6	33 51·11	5	8 43·5	M
173		*W. B. E. XI.* 582.			
Apl. 19	8·9	11 34 19·45	...	84 19 59·6	R
May 3	8·6	34 19·40	...	19 59·7	M
174		*Taylor* 6272.			
Mar. 29	8·0	11 35 31·46	...	84 32 19·0	R
31	8·0	35 31·52	...	32 19·4	R
Apl. 1	7·8	35 31·42	...	32 19·1	R
4	8·0	35 31·62	...	32 19·7	R
5	...	35 31·50	...	32 19·4	R
17	...	35 31·42	...	32 20·4	R
18	8·0	35 31·44	...	32 20·1	R
20	8·3	35 31·44	...	32 20·6	R
22	7·9	35 31·40	...	32 19·6	M
24	7·9	35 31·46	...	32 18·9	M
25	7·5	35 31·50	...	32 19·2	M
26	7·7	35 31·55	...	32 19·6	M
28	7·6	35 31·32	6	32 19·5	M
29	7·4	35 31·51	...	32 19·6	M
175		2 *Virginis* ℵ			
May 1	...	11 38 37·85	6	81 1 30·9	M
176		3 *Virginis v*			
Mar. 6	...	11 39 13·69	4	82 44 53·1	R
7	...	39 13·65	...	44 51·1	R

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
177		*Anon.*			
Apl. 19	10·0	11 41 56·11	...	84 33 58·6	R
20	9·9	41 56·09	...	33 56·7	R
21	9·9	41 55·74	...	33 58·8	M
22	9·8	41 55·87	...	33 58·1	M
24	9·7	41 55·90	...	33 58·2	M
25	9·7	41 55·94	...	33 57·5	M
178		94 *Leonis β, Deneb.*			
Apl. 6	...	11 42 28·64	...	74 42 25·5	R
13	...	42 28·71	...	42 25·4	R
May 13	...	42 28·61	...	42 25·3	M
179		*Baily's Flamsteed* 1656.			
Mar. 27	...	11 42 30·37	...	84 5 39·7	R
28	...	42 30·40	...	5 40·0	R
180		5 *Virginis β*			
Feb. 7	...	11 43 58·56	...	87 30 31·5	M
181		*Bonn* +5°.2550.			
Apl. 20	9·6	11 44 28·71	4	84 47 13·7	R
May 3	9·0	44 28·50	...	47 13·4	M
11	9·4	44 28·52	3	47 12·6	M
182		*Taylor* 6350.			
Apl. 4	8·7	11 47 27·57	...	84 24 14·7	R
5	8·7	47 27·52	...	24 13·3	R
6	...	47 27·53	...	24 14·7	R
10	...	47 27·59	...	24 14·3	R
12	8·3	47 27·59	...	24 14·4	R
13	8·0	47 27·57	5	24 15·1	R
17	...	47 27·47	...	24 15·2	R
18	8·3	47 27·50	...	24 15·6	R
183		*W. B. E. XI.* 805.			
Apl. 28	7·5	11 47 51·84	...	85 14 43·8	M
29	7·8	47 51·87	...	14 43·9	M
May 2	7·6	47 52·05	...	14 44·2	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
184		*Bonn* +4°.2543.			
May 26	9·2	11 48 4·94	...	85 30 25·2	M
30	9·1	48 5·04	...	30 24·9	M
31	9·2	48 4·85	6	30 25·5	M
185		*Bonn* +4°.2550.			
May 27	10·3	11 50 54·66	5	85 21 40·0	M
29	10·3	50 54·35	5	21 38·5	M
186		*Taylor* 6389.			
Mar. 20	...	11 51 37·26	...	85 47 59·0	R
21	...	51 37·22	...	47 58·1	M
22	...	51 37·20	...	47 59·4	M
23	7·0	51 37·32	...	47 58·9	M
187		7 *Virginis b*			
Mar. 15	...	11 53 20·52	4	85 37 35·4	R
16	...	53 20·42	...	37 35·4	R
18	...	53 20·52	...	37 34·5	R
188		8 *Virginis π*			
Feb. 7	...	11 54 15·81	...	82 39 59·6	M
8	...	54 15·85	...	39 59·6	M
Mar. 6	...	54 15·59	...	40 0·2	R
189		*Taylor* 6413.			
Mar. 29	8·7	11 54 34·06	...	85 38 56·0	R
30	9·0	54 34·15	4	38 57·1	R
31	9·0	54 34·09	...	38 54·9	R
Apl. 1	8·7	54 33·98	...	38 56·3	R
190		*Bonn* +3°.2592.			
Apl. 12	9·3	11 57 38·28	...	86 22 44·5	R
13	9·4	57 38·29	...	22 44·7	R
24	8·6	57 38·24	...	22 45·0	M
25	8·6	57 38·21	...	22 44·4	M
29	8·5	57 38·16	...	22 44·8	M
May 26	8·9	57 38·04	...	22 44·8	M
191		*Taylor* 6440.			
Mar. 27	...	11 58 6·83	...	85 42 27·3	R
28	7·7	58 6·78	...	42 28·2	R
192		9 *Virginis o*			
Apl. 4	...	11 58 38·28	5	80 33 0·8	R
193		*W. B. E. XI.* 1058.			
Mar. 30	8·0	12 2 6·08	...	86 10 25·9	R
Apl. 26	7·7	2 5·97	...	10 25·1	M
28	7·5	2 5·84	...	10 25·8	M
May 11	7·9	2 5·88	...	10 24·9	M
13	7·9	2 6·04	...	10 25·0	M
194		*W. B. E. XII.* 9.			
Mar. 24	8·9	12 2 40·59	...	86 50 31·9	M
May 2	8·7	2 40·49	...	50 32·1	M
3	8·6	2 40·47	...	50 31·4	M
30	8·2	2 40·35	...	50 31·2	M
31	8·4	2 40·29	...	50 32·7	M
195		10 *Virginis.*			
Mar. 7	...	12 3 4·72	...	87 22 38·0	R
8	...	3 4·78	...	22 40·6	R
10	...	3 4·76	4	22 38·4	R
11	...	3 4·79	...	22 39·4	R
13	...	3 4·75	...	22 39·8	R
196		2 *Corvi e*			
Apl. 6	...	12 3 20·59	4	111 53 54·7	R
197		*Lalande* 22869.			
Mar. 28	9·5	12 4 56·63	...	86 40 26·8	R
30	9·2	4 56·90	5	40 27·7	R
May 22	9·0	4 56·60	...	40 26·9	M
198		*Bonn* +3°.2614.			
May 29	9·7	12 5 59·00	...	86 36 5·0	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
199	*W. B. E. XII.* 87.				
Mar. 15	...	12 7 20·52	...	87 1 16·3	R
Apl. 8	7·6	7 20·55	...	1 18·2	R
May 26	7·4	7 20·50	...	1 18·5	M
27	7·5	7 20·51	4	1 18·1	M
200	*W. B. E. XII.* 139.				
Mar. 27	...	12 10 31·76	6	87 34 17·0	R
Apl. 13	9·0	10 31·73	...	34 16·0	R
May 31	8·5	10 31·57	...	34 16·4	M
201	*W. B. E. XII.* 155.				
Mar. 29	8·4	12 11 21·72	...	87 42 28·7	R
Apl. 25	7·7	11 21·77	...	42 27·3	M
May 3	7·8	11 21·78	...	42 28·1	M
11	7·6	11 21·82	4	42 27·5	M
202	*W. B. E. XII.* 174.				
Mar. 24	8·0	12 12 25·08	...	88 7 4·5	M
Apl. 19	8·8	12 25·14	...	7 5·1	R
28	7·8	12 24·71	5	7 5·3	M
29	7·8	12 24·96	...	7 4·5	M
May 30	7·9	12 25·04	...	7 4·8	M
203	*R. P. L.* 92—*s.p.*				
Nov. 27	...	12 13 4·27	2	2 50 51·3	M
204	15 *Virginis* η				
Mar. 2	...	12 13 18·43	...	89 56 59·4	R
4	...	13 18·39	...	56 58·8	R
6	...	13 18·30	...	56 59·6	R
May 1	...	13 18·38	...	57 0·3	M
8	...	13 18·28	...	56 59·7	M
13	...	13 18·30	5	56 59·5	M
19	...	13 18·35	...	56 59·7	M
205	16 *Virginis c*				
Mar. 16	...	12 13 47·92	...	85 58 7·5	R
17	...	13 47·97	5	58 8·2	R
18	...	13 47·83	...	58 7·1	R
20	...	13 48·10	...	58 9·6	R
22	...	13 47·95	...	58 8·9	M
23	...	13 47·90	...	58 8·9	M
Apl. 3	...	13 47·89	...	58 7·1	R
206	*W. B. E. XII.* 269.				
Apl. 12	8·2	12 18 4·95	...	87 54 6·2	R
13	8·0	18 5·04	...	54 6·6	R
18	7·5	18 4·99	...	54 7·4	R
May 22	7·7	18 5·04	...	54 5·7	M
29	7·6	18 5·02	...	54 5·8	M
207	*Anon.*				
May 31	8·0	12 25 1·79	6	151 0 59·6	M
208	9 *Corvi* β				
Apl. 21	...	12 27 36·86	...	112 41 0·5	M
May 2	...	27 36·90	...	41 0·2	M
8	...	27 36·81	...	41 0·1	M
11	...	27 36·85	...	41 0·0	M
13	...	27 36·79	...	41 0·1	M
19	...	27 36·86	...	40 59·8	M
22	...	27 36·90	...	40 58·7	M
25	...	27 36·89	...	40 59·3	M
26	...	27 36·92	...	41 0·5	M
27	...	27 36·88	...	40 59·3	M
209	*Taylor* 6707.				
Mar. 4	...	12 31 47·69	...	87 26 5·7	R
6	...	31 47·68	...	26 6·4	R
8	...	31 47·66	...	26 6·5	R
10	...	31 47·84	...	26 8·1	R
11	...	31 47·42	...	26 6·0	R
14	...	31 47·78	...	26 5·5	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
210		29 *Virginis* γ^1			
May 1	...	12 35 7·18	...	90 44 28·1	M
211		29 *Virginis* γ^2			
Mar. 7	...	12 35 7·52	...	90 44 31·6	R
May 2	...	35 7·44	...	44 33·4	M
212		*Anon.*			
May 26	9·2	12 39 51·39	...	141 56 34·0	M
29	9·1	39 51·49	...	56 33·3	M
213		*Brisbane* 4197.			
May 22	9·0	12 41 12·75	6	141 55 11·8	M
30	7·0	41 12·88	...	55 11·4	M
214		*Brisbane* 4200.			
May 25	9·0	12 42 3·68	6	141 51 54·4	M
215		38 *Virginis.*			
Feb. 8	...	12 46 35·03	...	92 51 7·4	M
216		*R. P. L.* 99.			
Apl. 18	...	12 48 12·94	3	5 53 7·3	R
May 13	...	48 12·21	5	53 9·0	M
27	...	48 12·63	1	53 9·6	M
		R. P. L. 99.—*s.p.*			
Oct. 21	...	12 48 13·15	3	5 53 10·6	R
Nov. 16	...	48 12·53	3	53 9·5	M
Dec. 11	...	48 12·64	3	53 9·7	M
16	...	48 12·86	3	53 10·5	M
217		43 *Virginis* δ			
Mar. 7	...	12 49 ~~5·95~~ 6·38	...	85 54 3·7	R

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
218		12 *Canum Venaticorum.*			
Apl. 22	...	12 49 59·47	...	50 59 4·6	M
May 11	...	49 59·38	...	59 4·9	M
19	...	49 59·36	5	59 5·2	M
June 1	...	49 59·43	...	59 4·2	M
219		*O. A. S.* 12539.			
May 26	6·9	12 50 22·35	5	118 10 9·1	M
220		*O. A. S.* 12542.			
May 29	9·6	12 50 42·98	6	118 13 15·9	M
221		51 *Virginis* θ			
Mar. 8	...	13 3 16·32	4	94 51 0·8	R
Apl. 5	...	3 16·36	...	51 0·4	R
22	...	3 16·39	...	50 59·8	M
29	...	3 16·20	...	51 0·2	M
May 11	...	3 16·31	...	50 59·7	M
22	...	3 16·30	...	50 59·5	M
25	...	3 16·27	...	51 0·4	M
26	...	3 16·29	...	50 59·8	M
27	...	3 16·36	...	51 0·3	M
29	...	3 16·41	...	50 59·8	M
30	...	3 16·34	...	51 0·0	M
31	...	3 16·31	...	50 59·7	M
June 1	...	3 16·42	...	50 59·8	M
2	...	3 16·30	...	50 59·5	M
Dec. 6	...	3 16·42	4	50 59·4	R
7	...	3 16·35	6	50 59·4	M
222		*R. P. L.* 100—*s.p.*			
Nov. 11	...	13 9 10·54	3	1 30 32·6	R
223		66 *Virginis.*			
Mar. 8	...	13 17 50·35	...	94 29 22·0	R
9	...	17 50·29	...	29 22·1	R
May 2	...	17 50·41	...	29 22·5	M
3	...	17 50·43	...	29 21·9	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
224		67 *Virginis a, Spica.*			
Apl. 27	...	13 18 23·83	...	100 29 16·1	M
28	...	18 23·94	...	29 14·4	M
May 5	...	18 23·98	4	29 14·5	M
6	...	18 24·02	...	29 14·6	M
25	...	18 23·99	...	29 14·9	M
26	...	18 23·86	5	29 14·6	M
29	...	18 23·93	...	29 14·0	M
31	...	18 23·99	...	29 14·8	M
June 1	...	18 23·83	...	29 15·2	M
2	...	18 23·93	...	29 14·7	M
7	...	18 23·98	...	29 14·5	M
225		*R. P. L.* 103.			
May 30	...	13 19 54·49	1	4 34 14·5	M
226		79 *Virginis* 3			
May 6	...	13 28 7·06	4	89 56 9·3	M
22	...	28 7·30	...	56 8·0	M
25	...	28 7·17	...	56 8·6	M
26	...	28 7·22	...	56 8·6	M
27	...	28 7·20	...	56 8·4	M
29	...	28 7·25	...	56 8·2	M
31	...	28 7·23	...	56 7·9	M
June 2	...	28 7·29	...	56 8·3	M
6	...	28 7·25	...	56 8·7	M
7	...	28 7·21	5	56 8·2	M
Dec. 6	...	28 7·18	...	56 8·3	R
227		80 *Virginis.*			
Mar. 8	...	13 28 48·84	4	94 44 19·6	R
9	...	28 48·67	...	44 19·4	R
May 2	...	28 48·57	...	44 19·0	M
3	...	28 48·69	...	44 19·4	M
228		*Bonn* +0°.3090.			
May 27	9·3	13 35 20·95	...	89 27 40·9	M
June 13	9·4	35 20·76	4	27 40·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
229		*Bonn* +0°.3091.			
May 30	9·6	13 36 18·66	6	89 37 5·8	M
230		*O. A. S.* 13100.			
May 25	8·6	13 37 37·16	...	116 59 50·8	M
231		85 *Ursae Majoris* η, *Benetnasch.*			
Apl. 21	...	13 42 27·27	...	40 2 31·3	M
25	...	42 27·32	...	2 31·7	M
June 6	...	42 27·38	...	2 31·0	M
8	...	42 27·51	...	2 31·0	M
9	...	42 27·60	...	2 30·6	M
232		*Anon.*			
May 1	9·5	13 45 55·49	...	128 25 17·3	M
233		8 *Bootis* η			
May 5	...	13 48 32·55	...	70 57 18·0	M
6	...	48 32·60	...	57 18·6	M
11	...	48 32·52	...	57 17·6	M
22	...	48 32·44	...	57 17·5	M
31	...	48 32·50	...	57 17·7	M
June 14	...	48 32·62	...	57 17·1	M
234		*Anon.*			
May 25	8·7	13 50 28·41	5	149 56 13·7	M
235		*Anon.*			
June 15	8·0	13 50 35·81	...	123 45 50·0	M
236		93 *Virginis* τ			
May 5	...	13 55 4·99	...	87 49 48·6	M
6	...	55 5·02	...	49 50·9	M
27	...	55 4·89	...	49 49·7	M
29	...	55 4·90	...	49 48·9	M
30	...	55 4·96	...	49 48·8	M
June 7	...	55 4·96	...	49 48·5	M
9	...	55 5·02	...	49 48·5	M
14	...	55 4·92	...	49 48·8	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
237		*Lacaille* 5794.			
June 13	7·0	13 57 35·11	5	152 49 40·7	M
238		94 *Virginis.*			
May 31	...	13 59 27·87	...	98 16 29·8	M
239		95 *Virginis.*			
Apl. 5	...	13 59 53·55	...	98 41 48·9	R
6	...	59 53·53	...	41 52·1	R
240		*Taylor* 6585.			
June 15	7·7	14 1 47·03	...	124 16 5·4	M
241		*Anon.*			
June 14	8·0	14 5 29·14	4	129 22 20·0	M
242		*Lacaille* 5844.			
May 27	7·7	14 5 35·02	...	151 6 6·8	M
29	7·0	5 34·94	...	6 6·9	M
June 9	7·6	5 34·83	6	6 7·0	M
243		98 *Virginis* κ			
Mar. 9	...	14 6 1·01	...	99 40 20·3	R
244		99 *Virginis* ι			
Apl. 5	...	14 9 15·06	...	95 23 0·7	R
245		16 *Bootis* α, *Arcturus.*			
May 5	...	14 9 46·62	...	70 8 45·2	M
30	...	9 46·67	...	8 42·8	M
June 6	...	9 46·71	...	8 42·2	M
8	...	9 46·63	4	8 42·3	M
246		*Anon.*			
June 14	8·8	14 19 58·77	...	124 40 19·3	M
247		*Anon.*			
June 15	8·9	14 22 22·23	...	122 35 55·8	M
248		25 *Bootis* ρ			
May 30	...	14 26 16·22	...	59 3 40·9	M
June 8	...	26 16·27	...	3 41·4	M
9	...	26 16·27	...	3 41·4	M
249		*Taylor* 6848.			
May 2	6·9	14 33 15·97	...	136 43 9·2	M
June 15	7·8	33 15·84	...	43 9·8	M
250		36 *Bootis* ε, *Mirac.*			
June 9	...	14 39 21·10	4	62 22 49·9	M
13	...	39 21·13	4	22 50·2	M
251		*Brisbane* 5069.			
May 25	7·8	14 41 56·88	...	131 18 31·3	M
252		9 *Librae* α^2			
Apl. 6	...	14 43 44·67	5	105 30 16·4	R
June 8	...	43 44·73	...	30 16·3	M
14	...	43 44·65	...	30 16·5	M
15	...	43 44·62	...	30 15·9	M
20	...	43 44·74	5	30 17·1	R
253		*O. A. N.* 15004.			
June 8	7·9	14 54 6·63	...	39 22 43·8	M
254		*Taylor* 7017.			
May 22	7·7	14 57 38·41	...	150 37 39·2	M
June 14	7·9	57 38·04	...	37 40·7	M
255		43 *Bootis* ψ			
June 13	...	14 58 55·18	...	62 32 53·0	M
15	...	58 55·00	...	32 52·7	M
20	...	58 55·02	...	32 52·7	R
28	...	58 55·10	...	32 52·2	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
256		21 *Librae* ν^1			
Apl. 6	...	14 59 26·08	...	105 45 16·2	R
May 31	...	59 25·99	...	45 18·2	M
June 1	...	59 26·19	3	45 19·1	M
257		*Taylor* 7079.			
May 13	7·0	15 3 46·00	...	123 8 54·2	M
258		27 *Librae* β			
June 3	...	15 10 4·68	...	98 54 19·3	M
13	...	10 4·01	5	54 19·6	M
14	...	10 4·04	...	54 19·4	M
15	...	10 4·20	...	54 19·2	M
20	...	10 4·06	5	54 20·3	R
259		*Lalande* 28028.			
May 25	6·6	15 15 36·57	...	58 3 32·5	M
260		*Taylor* 7220.			
June 15	7·8	15 22 32·84	...	123 8 4·1	M
261		*W. B. E. XV.* 429.			
July 6	9·3	15 24 25·45	6	101 29 57·6	R
262		*Taylor* 7240.			
June 1	7·2	15 24 51·70	4	130 2 58·6	M
263		38 *Librae* γ			
May 5	...	15 28 18·87	5	104 21 27·9	M
264		*Anon.*			
June 7	8·0	15 29 8·54	6	126 36 49·3	M
265		5 *Coronae Borealis* α, *Alpheta.*			
May 31	...	15 29 13·65	...	62 51 0·4	M
June 8	...	29 13·79	...	51 0·1	M
20	...	29 13·63	...	51 0·0	R
28	...	29 13·60	...	50 59·1	M
29	...	29 13·54	...	50 59·0	R
266		*W. B. E. XV.* 587.			
July 6	8·8	15 32 16·52	...	103 28 56·7	R
267		24 *Serpentis* α			
June 3	...	15 37 54·66	...	83 10 1·7	M
28	...	37 54·91	...	9 59·3	M
July 13	...	37 54·86	...	9 59·8	R
268		*O. A. S.* 14874.			
June 9	8·0	15 39 51·71	...	104 49 57·2	M
269		*W. B. E. XV.* 838.			
June 1	7·6	15 44 23·41	5	104 28 17·9	M
270		*O. A. S.* 14996.			
July 6	9·7	15 46 53·65	...	105 16 44·4	R
271		*O. A. S.* 15055.			
June 3	7·1	15 49 47·03	...	105 39 24·4	M
29	...	49 47·05	5	39 22·8	R
272		*Anon.*			
May 26	7·1	15 51 36·36	...	143 46 32·0	M
July 5	7·5	51 35·92	...	46 30·8	R
273		*Taylor* 7439.			
June 7	8·0	15 54 54·24	...	126 46 18·6	M
July 6	8·0	54 54·35	...	46 17·8	R
14	8·0	54 54·32	...	46 19·3	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
274		*Lalande* 29193.			
June 5	7·6	15 56 6·77	...	86 58 49·1	M
275		*W. B. E. XV.* 1047.			
June 9	7·9	15 56 18·09	...	91 17 21·8	M
276		8 *Scorpii* β^1			
June 1	...	15 57 56·24	...	109 27 1·7	M
28	...	57 56·32	...	26 59·9	M
July 22	...	57 56·15	...	27 0·6	M
277		*O. A. S.* 15281.			
July 6	9·8	16 1 22·25	...	105 44 52·9	R
278		*Anon.*			
June 15	7·7	16 4 35·76	5	107 53 42·2	M
279		1 *Ophiuchi* δ			
June 29	...	16 7 35·19	...	93 21 37·1	R
July 4	...	7 35·15	...	21 38·5	R
7	...	7 35·14	...	21 37·8	R
14	...	7 35·16	...	21 36·9	R
280		*Lalande* 29610.			
June 7	8·0	16 8 34·05	...	105 33 38·7	M
9	7·9	8 33·86	4	33 37·1	M
281		*O. A. S.* 15504.			
May 30	8·9	16 11 45·76	...	106 42 30·2	M
282		*O. A. S.* 15544.			
June 5	8·0	16 13 10·86	...	106 46 10·9	M
283		*O. A. S.* 15552.			
July 6	9·3	16 13 38·31	...	107 23 2·8	R
284		*Anon.*			
July 14	8·0	16 14 46·62	...	146 12 7·6	R
285		4 *Ophiuchi* ψ			
May 5	...	16 16 33·51	6	109 43 58·7	M
June 30	...	16 33·53	4	44 0·4	R
286		21 *Scorpii* α, *Antares.*			
June 29	...	16 21 30·16	...	116 8 35·1	R
July 4	...	21 30·11	...	8 34·9	R
5	...	21 30·10	...	8 34·8	R
7	...	21 30·08	...	8 36·0	R
14	...	21 29·85	...	8 34·8	R
21	...	21 30·05	...	8 35·0	R
22	...	21 30·07	...	8 34·0	M
24	...	21 30·04	...	8 32·0	M
287		*Lalande* 30042.			
July 6	9·0	16 22 58·08	...	48 27 46·5	R
288		9 *Ophiuchi* ω			
May 5	...	16 24 29·57	...	111 11 17·0	M
6	...	24 29·41	...	11 17·8	M
289		α *Trianguli Australis.*			
July 26	...	16 35 2·06	...	158 47 14·1	M
290		*Anon.*			
June 9	7·7	16 35 6·82	...	134 7 53·7	M
291		40 *Herculis* 3			
July 4	...	16 36 25·47	4	58 9 43·6	R
5	...	36 25·35	...	9 43·4	R
6	...	36 25·44	...	9 44·3	R
14	...	36 25·47	...	9 42·7	R
21	...	36 25·38	...	9 43·1	R
24	...	36 25·34	...	9 44·8	M
27	...	36 25·43	...	9 43·9	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
292		*Anon.*			
July 6	9·0	16 45 4·19	4	130 18 55·1	R
293		*Anon.*			
Aug. 19	7·8	16 48 1·08	...	121 5 47·3	R
23	...	48 1·01	...	5 49·6	R
294		27 *Ophiuchi* κ			
July 7	...	16 51 33·73	...	80 25 22·1	R
21	...	51 33·79	...	25 20·0	R
22	...	51 33·92	...	25 21·2	M
24	...	51 33·79	...	25 21·0	M
26	...	51 33·76	...	25 20·3	M
27	...	51 33·78	...	25 20·6	M
29	...	51 33·74	...	25 20·8	M
295		*O. A. S.* 16232.			
Aug. 22	9·8	16 54 22·15	5	110 15 21·2	R
296		*Anon.*			
June 5	7·6	16 55 41·51	...	109 57 14·0	M
20	...	55 41·39	4	57 14·8	R
297		*O. A. S.* 16288			
July 27	7·8	16 56 54·42	4	119 50 45·8	M
Aug. 23	...	56 54·49	...	50 45·6	R
298		22 *Ursae Minoris* ε			
July 26	...	16 59 16·65	4	7 45 16·2	M
		22 *Ursae Minoris* ε—*s.p.*			
Jan. 25	...	16 59 16·20	5	7 45 15·6	M
299		*Anon.*			
Aug. 22	9·5	17 6 6·30	4	130 54 18·9	R
300		*Anon.*			
Aug. 21	8·5	17 6 13·53	...	130 50 57·9	R
301		*Anon.*			
Aug. 23	...	17 6 36·19	...	130 54 34·0	R
302		64 *Herculis* α, *Var.* 1.			
June 5	...	17 8 45·99	...	75 27 39·3	M
29	...	8 45·90	...	27 38·5	R
30	...	8 45·98	...	27 39·0	R
July 4	...	8 45·91	...	27 39·4	R
13	...	8 45·94	...	27 37·1	R
21	...	8 45·96	...	27 38·7	R
26	...	8 45·92	...	27 39·0	M
27	...	8 45·89	...	27 38·4	M
29	...	8 45·91	...	27 38·5	M
303		*Anon.*			
Aug. 17	9·0	17 12 27·71	5	130 28 11·0	R
304		42 *Ophiuchi* θ			
May 6	...	17 14 5·29	...	114 52 5·7	M
June 30	...	14 5·25	4	52 5·6	R
July 13	...	14 5·35	5	52 5·3	R
24	...	14 5·38	3	52 5·2	M
Aug. 3	...	14 5·34	...	52 5·7	M
305		*Anon.*			
Aug. 18	8·8	17 21 33·66	...	130 43 58·4	R
19	8·3	21 33·60	...	43 57·7	R
306		*Anon.*			
June 5	8·6	17 21 42·38	...	130 46 4·2	M
Aug. 23	8·7	21 42·69	...	46 3·1	R
307		*Anon.*			
Aug. 5	8·6	17 21 52·22	...	130 33 19·8	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
308		*Anon.*			
July 4	7·5	17 22 25·11	...	128 54 56·3	R
21	7·8	22 25·05	...	54 57·4	R
309		*Anon.*			
Aug. 22	10·0	17 27 36·65	4	150 36 1·3	R
310		*Anon.*			
Aug. 18	8·0	17 28 33·64	...	130 43 48·3	R
311		55 *Ophiuchi a*			
June 30	...	17 28 56·82	...	77 20 39·2	R
July 24	...	28 56·81	...	20 38·7	M
26	...	28 56·78	...	20 38·7	M
29	...	28 56·78	...	20 39·2	M
31	...	28 56·82	5	20 38·3	M
Aug. 3	...	28 56·83	...	20 39·2	M
Dec. 8	...	28 56·68	3	20 39·7	M
312		*Anon.*			
Aug. 19	9·0	17 29 52·65	...	130 57 43·6	R
313		*Anon.*			
Aug. 21	9·3	17 34 41·75	...	128 57 44·8	R
23	9·0	34 41·76	...	57 45·2	R
314		*Anon.*			
Aug. 17	10·0	17 35 2·88	...	125 35 40·1	R
315		58 *Ophiuchi.*			
May 6	...	17 35 42·03	...	111 37 5·7	M
June 30	...	35 42·08	...	37 4·1	R
316		*Anon.*			
Aug. 19	9·7	17 36 40·67	5	150 36 20·2	R
317		*Anon.*			
Aug. 22	10·0	17 39 45·32	...	127 17 37·5	R
318		*Anon.*			
Aug. 5	8·8	17 40 1·98	...	127 21 48·7	M
319		*Anon.*			
Aug. 18	9·0	17 40 12·74	...	127 14 48·7	R
320		86 *Herculis* μ			
June 5	...	17 41 24·54	...	62 12 9·1	M
July 24	...	41 24·60	6	12 8·4	M
26	...	41 24·54	...	12 9·0	M
27	...	41 24·67	...	12 8·0	M
28	...	41 24·70	4	12 7·4	M
31	...	41 24·54	4	12 8·3	M
Aug. 3	...	41 24·51	...	12 8·2	M
4	...	41 24·71	...	12 8·2	M
30	...	41 24·62	...	12 9·2	R
321		*Taylor* 8282.			
Aug. 5	6·9	17 48 37·80	...	131 41 41·4	M
24	5·5	48 37·68	6	41 41·4	R
322		*Anon.*			
Aug. 21	9·7	17 48 39·68	5	152 8 38·6	R
323		*Taylor* 8288.			
Aug. 3	6·4	17 48 53·77	4	105 47 14·1	M
324		*Anon.*			
Aug. 17	8·5	17 50 54·97	6	130 50 30·1	R
325		*Anon.*			
Aug. 15	8·6	17 52 28·69	...	130 49 35·0	M
17	9·2	52 28·75	6	49 38·6	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
326 *Lacaille* 7517.					
July 27	8·0	17 53 1·02	5	149 10 28·0	M
327 33 *Draconis* γ					
July 28	...	17 53 36·73	...	38 29 42·0	M
Aug. 30	...	53 36·54	...	29 43·0	R
328 γ^1 *Sagittarii.*					
July 7	...	17 56 46·86	...	119 34 59·4	R
329 *Anon.*					
Aug. 5	9·0	17 59 58·58	...	150 26 7·8	M
330 *Bonn* +30°.3133.					
Aug. 19	8·0	18 3 19·30	6	59 1 10·6	R
331 *Anon.*					
Sep. 1	9·0	18 3 19·33	...	131 44 25·9	R
332 13 *Sagittarii* μ^1					
July 6	...	18 6 2·96	...	111 5 24·6	R
10	...	6 2·92	3	5 23·4	R
24	...	6 2·97	...	5 23·7	M
26	...	6 2·87	...	5 24·0	M
29	...	6 2·89	...	5 24·8	M
Aug. 4	...	6 2·82	...	5 24·0	M
14	...	6 2·92	...	5 23·6	M
30	...	6 2·90	...	5 25·7	R
333 *Lacaille* 7622.					
Aug. 15	7·5	18 6 32·43	...	133 12 13·3	M
334 *Anon.*					
Aug. 21	9·4	18 18 23·33	...	127 48 53·0	R
Sep. 1	9·3	18 23 44	...	48 54·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
335 23 *Ursae Minoris* δ					
July 26	...	18 13 56·75	3	3 23 38·0	M
Aug. 17	...	13 57·07	3	23 36·8	R
23 *Ursae Minoris* δ—*s.p.*					
Jan. 20	...	17 13 57·83	1	3 23 38·1	R
Feb. 16	...	13 57·25	1	23 37·2	M
21	...	13 58·38	1	23 38·9	M
Dec. 1	...	13 56·55	3	23 38·8	M
336 *Taylor* 8461.					
Aug. 5	6·3	18 14 55·17	4	134 10 16·2	M
12	6·0	14 55·14	...	10 16·1	M
337 *Lalande* 33818.					
Aug. 15	8·2	18 15 24·79	5	101 55 13·5	M
338 21 *Sagittarii.*					
July 29	...	18 17 39·91	...	110 36 30·0	M
339 *Taylor* 8509.					
Aug. 4	5·5	18 21 50·76	5	104 38 43·5	M
5	5·1	21 50·66	...	38 43·4	M
14	5·3	21 50·68	...	38 43·5	M
340 *Taylor* 8516.					
Aug 3	6·2	18 22 25·29	...	104 39 51·8	M
341 δ^2 *Telescopii.*					
Aug. 12	6·0	18 22 29·51	4	135 50 32·6	M
342 *V Sagittarii Var.* 5.					
Aug. 17	8·0	18 23 50·31	...	108 20 57·0	R
18	...	23 50·32	...	20 57·7	R
23	8·3	23 50·14	...	20 57·3	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
343		*Taylor* 8527.			
July 7	...	18 23 52·83	...	108 29 19·8	R
344		*O. A. S.* 18346.			
Aug. 15	8·0	18 24 37·22	...	109 12 44·8	M
345		*Anon.*			
Aug. 19	9·0	18 28 48·20	...	135 34 13·8	R
346		*Anon.*			
Aug. 24	9·8	18 29 53·66	...	135 12 13·5	R
347		*Anon.*			
Sep. 1	8·3	18 29 57·04	5	135 51 31·8	R
348		3 *Lyrae α, Vega.*			
July 6	...	18 32 34·15	...	51 20 5·6	R
28	...	32 34·22	5	20 6·8	M
31	...	32 34·16	5	20 5·5	M
Aug. 1	...	32 34·25	...	20 6·8	M
7	...	32 34·38	...	20 6·7	M
11	...	32 34·12	...	20 6·7	M
30	...	32 34·32	4	20 4·6	R
349		*Anon.*			
Aug. 21	9·0	18 35 10·25	5	136 44 36·1	R
350		*Anon.*			
Aug. 12	7·7	18 36 7·12	...	136 43 45·6	M
15	7·9	36 7·00	...	43 46·1	M
18	8·2	36 7·10	...	43 46·7	R
351		*R Scuti Var.* 1.			
Aug. 19	5·7	18 40 35·68	...	95 50 28·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
352		10 *Lyrae β, Var.* 1.			
June 5	...	18 45 19·15	...	56 47 9·1	M
July 10	...	45 18·99	...	47 7·5	R
Aug. 4	...	45 18·91	...	47 8·9	M
5	...	45 18·98	...	47 7·9	M
12	...	45 18·94	...	47 7·8	M
17	...	45 18·98	...	47 9·1	R
18	...	45 19·01	...	47 8·7	R
353		*Anon.*			
Aug. 24	8·8	18 46 19·06	...	126 40 27·5	R
Sep. 4	8·5	46 19·33	...	40 29·1	R
354		*Anon.*			
Sep. 1	9·0	18 47 25·76	...	137 44 27·6	R
355		*Lacaille* 7919.			
Aug. 14	8·0	18 48 11·98	4	129 4 30·0	M
19	9·0	48 12·22	...	4 30·7	R
356		*Anon.*			
Aug. 17	9·0	18 52 41·75	5	140 55 19·7	R
18	9·1	52 41·57	...	55 20·1	R
357		*R. P. L.* 131—*s.p.*			
Jan. 28	...	18 56 43·38	2	3 27 25·4	M
358		39 *Sagittarii o*			
July 29	...	18 56 57·23	...	111 55 41·4	M
359		*O. A. S.* 19032.			
Aug. 21	9·2	18 57 30·82	...	111 16 16·8	R
360		17 *Aquilae* 3			
July 24	...	18 59 28·81	4	76 19 35·2	M
26	...	59 28·83	...	19 35·5	M
28	...	59 28·84	5	19 35·7	M
Aug. 11	...	59 28·77	...	19 36·3	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
Aug. 12	...	18 59 28·83	...	76 19 36·3	M
15	...	59 28·77	...	19 36·0	M
17	...	59 28·84	...	19 36·7	R
18	...	59 28·83	...	19 36·4	R
19	...	59 28·82	...	19 36·5	R
22	...	59 28·89	...	19 36·0	R
Sep. 2	...	59 28·81	...	19 35·5	R
18	...	59 28·80	...	19 36·4	R
361	*R Aquilae Var.* 3.				
Sep. 4	7·5	19 0 9·36	...	18 57 48·3	R
362	*Bonn* +7°.3971.				
Sep. 4	9·7	19 1 12·45	5	82 0 55·3	R
363	41 *Sagittarii* π				
July 29	...	19 2 5·55	...	111 18 34·2	M
364	*Anon.*				
Aug. 15	8·3	19 3 38·48	5	139 22 4·5	M
365	*Anon.*				
Aug. 24	9·5	19 7 35·15	...	129 47 0·5	R
366	42 *Sagittarii* ψ				
June 5	...	19 7 37·63	4	115 28 36·0	M
367	*Anon.*				
Aug. 24	9·8	19 8 47·35	4	129 48 21·4	R
368	25 *Aquilae* ω				
July 26	...	19 11 45·70	...	78 38 6·6	M
28	...	11 45·63	...	38 8·0	M
Aug. 1	...	11 45·70	...	38 5·3	M
2	...	11 45·78	...	38 5·7	M
3	...	11 45·69	...	38 6·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
Aug. 12	...	19 11 45·68	...	78 38 7·6	M
14	...	11 45·69	...	38 7·2	M
17	...	11 45·66	...	38 7·4	R
18	...	11 45·67	...	38 6·6	R
19	...	11 45·62	...	38 6·9	R
21	...	11 45·66	...	38 6·7	R
Sep. 1	...	11 45·63	...	38 6·5	R
18	...	11 45·64	...	38 7·5	R
369	*Lacaille* 8074.				
Aug. 22	...	19 13 6·66	6	132 15 14·8	R
370	30 *Aquilae* δ				
July 24	...	19 18 59·57	...	87 8 25·2	M
26	...	18 59·52	4	8 23·8	M
28	...	18 59·63	...	8 23·3	M
Aug. 2	...	18 59·50	...	8 24·2	M
4	...	18 59·70	...	8 24·1	M
5	...	18 59·60	...	8 25·2	M
15	...	18 59·56	...	8 24·2	M
19	...	18 59·56	...	8 25·3	R
24	...	18 59·66	...	8 24·6	R
Sep. 2	...	18 59·42	...	8 25·4	R
18	...	18 59·67	...	8 24·8	M
371	*Anon.*				
Sep. 4	9·3	19 19 38·26	...	128 37 38·9	R
372	*Anon.*				
Aug. 23	9·0	19 25 24·96	...	129 55 7·3	R
373	*Anon.*				
Sep. 1	8·0	19 26 35·82	5	131 23 57·6	R
374	52 *Sagittarii* h^3				
July 24	...	19 28 51·30	5	115 9 58·0	M
25	...	28 51·00	6	9 57·8	M
Aug. 1	...	28 51·36	...	9 58·2	M
Sep. 2	...	28 51·32	...	9 58·2	R
18	...	28 51·17	...	9 58·1	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
375		*Anon.*			
Aug. 21	8·5	19 31 27·55	...	127 41 36·7	R
24	8·2	31 27·46	...	41 35·6	R
376		*Lacaille* 8173.			
Sep. 4	8·0	19 32 10·42	...	143 14 37·4	R
377		*Anon.*			
Aug. 23	5·5	19 33 28·46	...	40 2 59·2	R
378		*Anon.*			
Aug. 5	8·2	19 34 18·20	...	127 44 21·0	M
379		50 *Aquilae* γ			
Aug. 1	...	19 40 7·43	...	79 41 56·7	M
7	...	40 7·58	...	41 56·9	M
18	...	40 7·58	...	41 57·9	R
21	...	40 7·55	...	41 58·1	R
22	...	40 7·55	...	41 57·4	R
Sep. 20	...	40 7·57	...	41 57·5	M
380		*O. A. S.* 19996.			
Sep. 1	9·7	19 42 41·57	...	108 11 3·0	R
381		53 *Aquilae* α, *Altair*.			
July 26	...	19 44 29·29	...	81 28 12·1	M
31	...	44 29·31	...	28 11·8	M
Aug. 9	...	44 29·38	...	28 12·3	M
Sep. 13	...	44 29·31	...	28 13·1	R
23	...	44 29·29	...	28 11·7	M
382		60 *Aquilae* β			
July 24	...	19 48 58·53	5	83 54 48·7	M
25	...	48 58·58	...	54 48·6	M
28	...	48 58·57	...	54 49·8	M
Aug. 2	...	48 58·48	...	54 48·9	M
Aug. 5	...	19 48 58·60	...	83 54 49·1	M
11	...	48 58·56	...	54 49·5	M
21	...	48 58·60	...	54 48·8	R
22	...	48 58·52	...	54 50·4	R
Sep. 20	...	48 58·55	...	54 48·7	M
383		λ *Ursae Minoris*.			
Sep. 13	...	19 53 14·22	2	1 4 44·4	R
		λ *Ursae Minoris—s.p.*			
Jan. 31	...	19 53 18·54	1	1 4 46·7	M
384		*Anon.*			
Sep. 1	9·3	19 53 34·90	4	147 9 47·7	R
385		*Anon.*			
Aug. 24	9·5	19 57 15·45	...	130 20 25·7	R
386		*Lacaille* 8370.			
Sep. 18	7·7	20 7 34·43	6	152 18 1·0	M
387		5 *Capricorni* α^1			
Aug. 5	...	20 10 29·52	...	102 54 17·1	M
388		6 *Capricorni* α^2			
July 24	...	20 10 53·68	...	102 56 33·7	M
28	...	10 53·66	...	56 33·6	M
Sep. 1	...	10 53·68	...	56 36·4	R
20	...	10 53·68	...	56 34·1	M
389		*Anon.*			
Aug. 15	8·0	20 11 38·75	5	106 15 26·3	M
390		*Lalande* 39045.			
July 27	6·0	20 12 20·09	...	50 1 58·3	M
Aug. 8	6·5	12 20·00	...	1 58·3	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
391		*a Pavonis.*			
Sep. 4	...	20 15 25·84 26·20	...	147 8 46·2	R
18	...	15 25·91	...	8 44·5	R
392		11 *Capricorni* ρ			
June 5	...	20 21 29·92	4	108 14 18·5	M
July 25	...	21 30·06	...	14 16·9	M
28	...	21 29·96	...	14 17·2	M
31	...	21 30·11	...	14 16·3	M
Aug. 9	...	21 29·93	...	14 15·5	M
23	...	21 30·04	...	14 18·6	R
Sep. 1	...	21 30·04	...	14 17·3	R
14	...	21 30·04	4	14 18·0	R
16	...	21 29·96	...	14 17·3	M
23	...	21 30·03	...	14 17·3	M
28	...	21 29·95	...	14 16·2	M
393		24 *Cephei* (*Hev.*)			
Sep. 4	9·0	20 22 57·83 49·49	2	1 15 43·3	R
18	...	22 51·41	1	15 43·3	R
394		*Anon.*			
Sep. 18	8·6	20 23 25·41	...	125 57 7·4	M
395		*Anon.*			
Aug. 15	8·2	20 27 39·34	...	121 4 28·4	M
396		*Anon.*			
Sep. 18	9·5	20 29 9·12	...	121 5 5·1	R
397		*Taylor* 9518.			
July 4	...	20 32 19·86	...	105 25 37·0	R
398		*Anon.*			
Sep. 18	9·2	20 35 7·65	...	128 12 12·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
399		*Anon.*			
Sep. 18	8·9	20 36 13·14	...	124 58 52·7	M
400		50 *Cygni a, Deneb.*			
Aug. 9	...	20 37 2·02	...	45 10 46·1	M
14	...	37 1·96	...	10 48·1	M
23	...	37 2·01	...	10 48·3	R
24	...	37 2·02	...	10 46·5	R
Sep. 4	...	37 2·32	...	10 46·6	R
14	...	37 1·92	...	10 46·4	R
19	...	37 2·11	...	10 48·2	M
23	...	37 2·08	5	10 46·1	M
27	...	37 2·11	...	10 46·9	M
29	...	37 2·07	5	10 47·1	M
401		*Lacaille* 8571.			
Sep. 18	7·5	20 43 27·24	...	150 11 24·5	R
402		*Anon.*			
Sep. 28	8·3	20 44 3·27	...	124 56 35·6	M
403		32 *Vulpeculae.*			
July 25	...	20 49 3·87	...	62 25 55·8	M
Aug. 15	...	49 3·77	...	25 55·7	M
23	...	49 3·72	...	25 55·7	R
24	...	49 3·70	...	25 55·8	R
Sep. 15	...	49 3·66	...	25 54·1	M
16	...	49 3·64	5	25 56·2	M
23	...	49 3·71	...	25 54·6	M
27	...	49 3·71	...	25 55·5	M
29	...	49 3·78	...	25 55·7	M
404		*Anon.*			
Oct. 5	9·0	20 51 14·02	5	148 44 16·1	M
405		*Lacaille* 8630.			
Sep. 18	7·5	20 51 50·77	4	126 37 35·8	R

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
406		*Anon.*			
Sep. 13	9·9	20 52 ~~3·08~~ 2·94	4	126 36 27·3	R
18	8·8	52 2·62	...	36 27·5	M
407		*Anon.*			
Aug. 18	10·0	20 54 28·36	...	142 57 37·8	R
Sep. 28	9·2	54 28·13	...	57 38·5	M
408		*Anon.*			
July 4	...	20 57 36·82	...	107 40 27·1	R
409		*Anon.*			
Sep. 14	9·3	21 0 9·47	...	128 59 48·2	R
410		*Anon.*			
Oct. 2	9·2	21 1 38·00	...	120 0 57·9	M
3	9·2	1 38·12	...	0 59·8	M
4	9·0	1 38·09	5	0 56·7	M
411		*Anon.*			
Oct. 6	9·3	21 3 25·30	5	145 5 2·6	M
412		64 *Cygni* 3			
July 25	...	21 7 26·74	...	60 18 3·5	M
Sep. 15	...	7 26·77	...	18 3·5	M
16	...	7 26·87	...	18 4·1	M
19	...	7 26·78	5	18 4·0	M
27	...	7 26·77	...	18 3·5	M
28	...	7 26·68	...	18 3·7	M
29	...	7 26·74	...	18 4·2	M
Oct. 5	...	7 26·65	...	18 3·3	M
13	...	7 26·73	...	18 3·4	M
413		*Lacaille* 8748.			
Sep. 14	8·5	21 10 18·48	...	145 5 58·0	R
18	8·0	10 18·19	...	5 58·6	M
414		32 *Capricorni* ι			
July 31	...	21 15 3·61	...	107 22 56·5	M
415		*Anon.*			
Oct. 4	9·2	21 15 26·75	...	130 14 21·8	M
416		*Anon.*			
Oct. 2	9·0	21 19 7·62	...	153 50 44·5	M
417		*Anon.*			
Sep. 29	7·9	21 21 36·86	...	128 54 31·4	M
418		*Anon.*			
Oct. 5	9·6	21 23 21·45	...	110 5 39·0	M
419		22 *Aquarii* β			
July 25	...	21 24 45·96	...	96 8 14·5	M
Sep 14	...	24 45·93	...	8 14·6	R
15	...	24 46·02	...	8 15·2	M
19	...	24 45·07	...	8 14·1	M
20	...	24 45·98	...	8 14·2	M
28	...	24 46·03	...	8 14·1	M
Oct. 6	...	24 45·95	...	8 13·5	M
7	...	24 45·95	...	8 14·2	M
420		*Anon.*			
Sep. 18	8·0	21 26 17·18	...	140 21 38·1	M
421		*Anon.*			
Oct. 3	9·0	21 27 31·43	...	132 36 29·1	M
422		*Anon.*			
Oct. 12	7·7	21 30 9·88	...	127 44 30·9	M
423		*Taylor* 10032.			
Aug. 12	6·2	21 31 10·26	...	142 56 24·6	M
— 8	6·3	31 10·42	...	56 23·2	M

9·72

45·91

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Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
424	40 *Capricorni* γ				
July 31	...	21 32 56·49	...	107 14 36·7	M
425	*Anon.*				
Oct. 6	9·3	21 34 15·67	...	102 58 28·4	M
426	*Anon.*				
Oct. 5	9·2	21 34 57·84	...	102 58 10·8	M
427	8 *Pegasi* ε				
July 25	...	21 37 51·04	...	80 42 54·6	M
Sep. 4	...	37 51·15	...	42 55·4	R
11	...	37 50·94	...	42 53·5	R
19	...	37 50·95	...	42 54·6	M
428	*Anon.*				
Sep. 28	9·0	21 38 5·76	...	127 46 18·5	M
Oct. 3	8·9	38 5·99	...	46 19·4	M
429	49 *Capricorni* δ				
July 4	...	21 39 55·35	...	106 42 41·4	R
Dec. 16	...	39 55·23	...	42 41·2	M
430	*Anon.*				
Oct. 2	9·2	21 41 21·07	...	127 45 32·9	M
11	9·3	41 21·16	...	45 33·5	M
431	*W. B. E. XXI.* 975.				
Sep. 18	8·9	21 41 31·99	6	97 17 49·9	M
432	*Anon.*				
Oct. 12	8·9	21 43 19·41	5	132 29 28·2	M
433	*Lacaille* 8948.				
Oct. 7	7·8	21 45 27·85	...	127 30 0·4	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
434	16 *Pegasi.*				
Sep. 4	...	21 47 11·59	...	64 40 51·6	R
11	...	47 11·56	...	40 50·7	R
Oct. 6	...	47 11·50	...	40 51·6	M
435	*Anon.*				
Oct. 5	9·3	21 51 7·47	4	127 27 27·1	M
436	*Anon.*				
Sep. 28	8·9	21 53 11·35	...	127 28 37·6	M
437	*Anon.*				
Oct. 7	9·0	21 53 13·19	...	129 30 40·8	M
438	*Lacaille* 9006.				
Oct. 6	7·5	21 56 34·81	...	129 29 52·2	M
439	34 *Aquarii* α				
Sep. 8	...	21 59 9·41	...	90 56 42·3	R
11	...	59 9·53	...	56 43·2	R
Oct. 2	...	59 9·38	...	56 43·5	M
3	...	59 9·47	...	56 45·3	M
9	...	59 9·33	...	56 44·5	M
13	...	59 9·44	...	56 44·1	M
440	33 *Aquarii* ι				
July 4	...	21 59 28·13	...	104 29 40·5	R
441	*W. B. E. XXI.* 1413.				
Sep. 4	9·2	22 2 10·12	...	78 7 45·8	R
Oct. 5	9·0	2 9·97	...	7 41·8	M
442	*Anon.*				
Oct. 12	9·3	22 3 36·81	...	129 3 17·9	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
443 *Lacaille* 9047.					
Oct. 7	7·0	22 4 21·49	...	128 56 18·3	M
11	7·9	4 21·53	...	56 19·0	M
444 43 *Aquarii* θ					
Sep. 8	...	22 10 1·47	...	98 25 29·1	R
Oct. 2	...	10 1·42	...	25 29·2	M
9	...	10 1·44	...	25 28·6	M
445 *Anon.*					
Oct. 13	7·9	22 12 28·34	...	129 24 37·3	M
446 *Anon.*					
Oct. 5	7·7	22 12 56·07	6	150 35 44·0	M
21	8·2	12 56·13	4	35 44·3	M
447 *Anon.*					
Oct. 12	9·3	22 14 41·27	6	146 32 22·7	M
448 *Anon.*					
Oct. 7	8·3	22 15 8·87		129 24 13·2	M
449 *W. B. E. XXII.* 380.					
Sep. 18	9·3	22 18 46·07	...	88 15 31·3	M
450 *Anon.*					
Oct. 11	9·5	22 19 17·13	...	140 43 41·5	M
451 *R. P. L.* 150.					
Oct. 3	...	22 23 12·21	2	4 32 32·6	M
R. P. L.—150 *s.p.*					
Feb. 8	...	22 23 12·06	3	4 32 36·1	M
Mar. 22	...	23 12·73	3	32 34·5	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
452 57 *Aquarii* σ					
Aug. 1	...	22 23 49·24	...	101 20 14·4	M
453 *Anon.*					
Oct. 2	7·9	22 24 6·84	...	130 38 21·8	M
21	8·5	24 6·94	...	38 22·2	R
454 *Anon.*					
Oct. 13	9·0	22 24 43·25	...	135 40 1·7	M
455 *Anon.*					
Oct. 6	7·9	22 26 18·61	...	141 28 5·3	M
456 *Bonn* +5°. 5029.					
Oct. 5	8·1	22 26 20·80	...	84 4 25·9	M
457 62 *Aquarii* η					
Sep. 8	...	22 28 43·53	...	90 46 54·8	R
Oct. 9	...	28 43·64	...	46 53·0	M
12	...	28 43·46	...	46 54·5	M
458 42 *Pegasi* ζ					
Sep. 18	...	22 35 1·68	...	79 50 29·5	M
Oct. 3	...	35 1·62	...	50 29·7	M
5	...	35 1·78	...	50 28·7	M
7	...	35 1·64	...	50 28·9	M
11	...	35 1·59	...	50 29·1	M
26	...	35 1·64	...	50 30·0	M
27	...	35 1·61	...	50 29·0	M
459 71 *Aquarii* τ^2					
Aug. 1	...	22 42 45·68	...	104 16 21·6	M
460 *Anon.*					
Oct. 11	8·8	22 43 51·23	6	130 34 24·9	M
13	9·0	43 51·11	...	34 27·7	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
461		*Anon.*			
Oct. 7	8·0	22 44 9·28	5	135 40 49·5	M
462		*Anon.*			
Oct. 21	10·0	22 44 31·29	...	135 34 56·5	R
28	9·8	44 31·57	5	35 1·1	R
463		*Anon.*			
Oct. 3	8·3	22 45 6·01	4	135 39 4·4	M
4	8·4	45 6·09	...	39 4·3	M
464		*Anon.*			
Oct. 26	9·0	22 49 37·58	...	135 25 40·4	M
465		24 *Piscis Australis a, Fomalhaut.*			
Oct. 6	...	22 50 31·05	...	120 18 19·6	M
19	...	50 30·97	6	18 20·0	R
25	...	50 31·11	...	18 19·9	M
466		*Anon.*			
Sep. 18	7·9	22 52 9·99	...	85 20 54·5	M
27	7·9	52 10·05	6	20 55·0	M
467		*Anon.*			
Oct. 12	7·9	22 53 48·23	...	128 3 5·2	M
468		*Anon.*			
Oct. 7	8·4	22 57 37·17	5	149 35 43·9	M
469		54 *Pegasi a, Markab.*			
Oct. 19	...	22 58 20·00	...	75 29 18·2	R
21	...	58 20·11	...	29 19·7	R
25	...	58 20·20	...	29 20·3	M
28	...	58 20·10	...	29 18·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
470		*Lacaille* 9372.			
Oct. 13	7·7	23 0 48·47	...	150 25 57·0	M
471		*Anon.*			
Oct. 12	7·3	23 7 49·18	...	129 52 48·2	M
472		*Anon.*			
Oct. 28	9·0	23 8 33·25	...	150 29 2·7	R
473		*Lacaille* 9423.			
Sep. 30	7·0	23 10 20·64	4	151 42 19·3	M
474		6 *Piscium* γ			
Sep. 18	...	23 10 28·57	...	87 25 20·6	M
Oct. 16	...	10 28·64	...	25 20·5	R
19	...	10 28·58	...	25 19·8	R
21	...	10 28·67	...	25 22·5	R
27	...	10 28·68	...	25 19·6	M
Dec. 8	...	10 28·67	...	25 20·5	M
475		*Anon.*			
Oct. 26	8·8	23 11 42·03	...	136 52 4·7	M
476		*Anon.*			
Sep. 29	9·1	23 17 17·48	...	127 25 9·6	M
Oct. 2	9·0	17 17·39	...	25 9·7	M
12	9·2	17 17·67	...	25 9·6	M
477		8 *Piscium* κ			
Oct. 3	...	23 20 19·13	...	89 27 2·1	M
4	...	20 19·19	...	27 1·1	M
16	...	20 19·15	...	26 58·5	R
19	...	20 19·06	...	27 2·0	R
21	...	20 19·16	...	27 2·3	R
25	...	20 19·10	...	27 2·2	M
27	...	20 19·09	...	27 2·0	M
Dec. 8	...	20 19·15	...	27 1·8	M

Separate Results of Madras Meridian Circle Observations in 1871.

Number and Date.	Magnitude.	Mean Right Ascension 1871. h. m. s.	No. of Wires.	Mean Polar Distance 1871. ° ′ ″	Observer.
478		*Anon.*			
Sep. 30	9·2	23 22 0·67	...	137 26 0·8	M
479		*Anon.*			
Oct. 6	7·9	23 24 40·60	...	126 59 56·2	M
13	8·0	24 40·71	...	59 56·8	R
480		*Lacaille* 9514.			
Oct. 26	8·9	23 26 15·91	5	131 33 27·7	M
481		*Anon.*			
Oct. 28	9·0	23 30 2·95	...	130 4 47·0	R
482		17 *Piscium* ι			
Oct. 2	...	23 33 18·92	...	85 4 21·7	M
3	...	33 18·86	...	4 23·3	M
4	...	33 18·90	...	4 21·3	M
16	...	33 18·89	...	4 22·3	R
21	...	33 18·89	...	4 23·4	R
Nov. 18	...	33 18·84	...	4 21·3	M
Dec. 8	...	33 18·86	...	4 21·3	M
11	...	33 18·95	...	4 22·6	M
15	...	33 18·93	...	4 21·3	M
16	...	33 18·95	...	4 20·6	M
483		*Anon.*			
Oct. 7	8·0	23 35 34·45	6	148 40 38·3	M
484		δ *Sculptoris.*			
Sep. 30	...	23 42 12·30	...	118 50 37·6	M
Oct. 4	...	42 12·15	...	50 37·7	M
6	...	42 12·20	...	50 37·3	M
11	...	42 12·20	...	50 37·5	M
26	...	42 12·12	...	50 38·3	R
Nov. 11	...	42 12·16	...	50 37·9	R
Dec. 11	...	42 12·10	...	50 38·3	M
15	...	42 12·11	...	50 36·7	M
16	...	42 12·20	...	50 37·3	M
485		*Anon.*			
Oct. 2	8·0	23 42 20·91	...	142 2 6·4	M
486		*Anon.*			
Oct. 21	8·7	23 42 26·38	5	150 47 38·6	R
487		*Anon.*			
Oct. 28	9·5	23 43 4·95	...	150 51 45·1	R
488		*Anon.*			
Sep. 29	8·5	23 47 13·95	...	128 7 33·2	M
Oct. 7	8·9	47 14·01	...	7 32·8	M
489		*Lacaille* 9650.			
Oct. 21	9·0	23 49 27·15	...	129 45 51·3	R
490		*Anon.*			
Nov. 16	7·9	23 50 19·24	6	148 51 4·4	M
491		*Anon.*			
Oct. 6	8·0	23 52 7·46	...	152 18 18·8	M
492		28 *Piscium* ω			
Oct. 2	...	23 52 41·28	...	83 51 2·6	M
4	...	52 41·20	...	51 0·4	M
11	...	52 41·16	...	51 *6·2	M
25	...	52 41·15	...	51 2·9	M
26	...	52 41·20	...	51 4·4	M
Nov. 11	...	52 41·13	...	51 3·3	R
15	...	52 41·30	...	51 4·6	M
23	...	52 41·21	...	51 4·5	M
Dec. 15	...	52 41·22	6	51 2·5	M
16	...	52 41·24	...	51 2·4	M
493		*Anon.*			
Oct. 27	9·3	23 56 20·12	...	130 14 39·8	M
28	9·5	56 20·20	...	14 41·8	M
494		*Anon.*			
Oct. 3	7·9	23 56 29·21	...	124 5 26·1	M
495		*Taylor* 10990.			
Oct. 12	9·1	23 57 17·04	5	148 32 48·6	M
496		*Taylor* 10997.			
Oct. 21	8·0	23 58 24·90	5	126 44 9·1	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1871

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
1	21 Androm. α (*Alpheratz*) ...	2·1	...	0	1	43·42	61	37	19·6	5	0·90
2	Lacaille 9739	7·6	1	0	2	25·71	130	27	17·9	1	0·78
3	Lacaille 9746	8·0	2	0	3	9·24	146	54	35·5	2	0·78
4	... ...	9·4	1	0	5	19·75	126	15	45·2	1	0·87
5	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	35·70	75	32	2·1	8	0·88
6	Lalande 421	7·6	1	0	16	9·23	51	57	40·5	1	0·77
7	O. A. N. 317	9·0	1	0	17	59·67	26	4	35·8	1	0·87
8	12 Ceti	6·2	...	0	23	27·27	99	40	14·6	13	0·87
9	13 Ceti	5·3	...	0	28	36·55	94	18	13·2	1	0·96
10	15 Ceti	6·9	...	0	31	28·82	91	12	49·3	1	0·79
11	18 Cassiopeæ α, Var. 2 ...	2·3	...	0	33	11·95	34	10	14·6	1	0·87
12	Taylor 184	6·0	1	0	34	8·18	95	3	37·3	1	0·90
13	W. B. E. 0·585	6·9	1	0	34	55·97	94	56	29·8	1	0·87
14	16 Ceti β	2·1	...	0	37	6·73	108	41	42·2	11	0·84
15	58 Piscium	5·7	...	0	40	17·74	78	43	48·2	2	0·82
16	60 Piscium	6·5	...	0	40	43·33	83	57	49·9	1	0·86
17	20 Ceti	5·0	...	0	46	24·98	91	50	43·6	1	0·82
18	... ...	8·8	1	0	50	40·13	129	37	51·0	1	0·84
19	... ...	9·0	2	0	52	10·35	130	39	45·7	2	0·87
20	Lacaille 271	7·4	1	0	52	59·80	151	23	44·5	1	0·87
21	70 Piscium	6·1	...	0	55	24·42	82	45	20·7	1	0·96
22	71 Piscium e	4·5	...	0	56	14·98	82	48	16·8	9	0·90
23	29 Ceti	6·3	...	1	1	20·58	88	40	56·3	1	0·77
24	33 Ceti	6·3	...	1	3	55·30	88	14	29·2	1	0·97
25	1 Urs. Min. α (*Polaris*) ...	2·2	...	1	11	37·6935	1	22	42·9	8	0·62
26	Brisbane 203	7·0	1	1	15	16·30	150	45	9·0	1	0·88
27	44 Ceti	7·0	...	1	17	33·17	98	40	45·3	1	0·78
28	45 Ceti θ^1	3·8	...	1	17	34·40	98	51	0·4	5	0·90
29	93 Piscium ρ	5·2	...	1	19	18·32	71	30	1·6	1	0·90
30	98 Piscium μ	5·2	...	1	23	25·66	84	31	18·9	2	0·82
31	Bonn +2°.221	8·9	1	1	23	49·75	87	41	45·8	1	0·84
32	99 Piscium η	3·7	...	1	24	34·96	75	19	12·9	6	0·90
33	102 Piscium π	5·6	...	1	30	16·00	78	31	5·5	1	0·84
34	... ...	8·7	1	1	31	7·91	130	48	23·9	1	0·84
35	α Eridani (*Achernar*) ...	1·0	...	1	32	54·57	147	53	36·3	3	0·88

6.—Observed for map of R Andromedæ Var.
7.—Observed for map of Gemma's Nova of 1572.
11.—18 Cassiopeæ α, Var. 2, (Shedir).
24.—Comparison star for Mars in 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	21 Andromedæ α ...	+ 3·0776	+ 0·0182	+ 0·010	− 20·055	+ 0·013	+ 0·16	3215
2	Lacaille 9739 ...	+ 3·0604	− 0·0233	...	− 20·053	+ 0·013	...	...
3	Lacaille 9746 ...	+ 3·0439	− 0·0429	...	− 20·053	+ 0·015	...	...
4	... ...	+ 3·0493	− 0·0194	...	− 20·050	+ 0·019	...	...
5	88 Pegasi γ (*Algenib*)	+ 3·0820	+ 0·0100	− 0·001	− 20·047	+ 0·022	+ 0·01	1
6	Lalande 421	+ 3·1458	+ 0·0271	...	− 20·005	+ 0·041	...	...
7	O. A. N. 317	+ 3·2864	+ 0·0723	...	− 19·993	+ 0·047	...	...
8	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·950	+ 0·055	+ 0·01	38
9	13 Ceti	+ 3·0596	+ 0·0014	+ 0·027	− 19·898	+ 0·064	+ 0·02	50
10	15 Ceti	+ 3·0683	+ 0·0029	− 0·006	− 19·866	+ 0·069	+ 0·03	55
11	18 Cassiopeæ α, Var. 2	+ 3·3564	+ 0·0553	+ 0·004	− 19·844	+ 0·080	+ 0·04	59
12	Taylor 184	+ 3·0546	+ 0·0012	...	− 19·836	+ 0·075	...	...
13	W. B. E. 0·585 ...	+ 3·0545	+ 0·0013	...	− 19·822	+ 0·078	...	...
14	16 Ceti β	+ 2·9992	− 0·0055	+ 0·015	− 19·792	+ 0·080	− 0·03	70
15	58 Piscium	+ 3·1188	+ 0·0101	+ 0·002	− 19·746	+ 0·087	+ 0·01	76
16	60 Piscium	+ 3·0971	+ 0·0063	− 0·001	− 19·739	+ 0·087	+ 0·00	80
17	20 Ceti	+ 3·0635	+ 0·0036	− 0·002	− 19·645	+ 0·098	+ 0·01	98
18	... ...	+ 2·8294	− 0·0155	...	− 19·566	+ 0·098	...	...
19	... ...	+ 2·8132	− 0·0160	...	− 19·538	+ 0·100	...	...
20	Lacaille 271	+ 2·5102	− 0·0289	...	− 19·521	+ 0·092	...	...
21	70 Piscium	+ 3·1129	+ 0·0086	− 0·002	− 19·471	+ 0·116	− 0·07	110
22	71 Piscium ε	+ 3·1132	+ 0·0087	− 0·007	− 19·454	+ 0·119	− 0·04	113
23	29 Ceti	+ 3·0804	+ 0·0058	+ 0·007	− 19·340	+ 0·126	+ 0·44	133
24	33 Ceti	+ 3·0835	+ 0·0062	− 0·002	− 19·279	+ 0·131	+ 0·00	148
25	1 Urs. Min. α (*Polaris*)	+ 20·1515	+ 14·3118	+ 0·108	− 19·084	+ 0·911	+ 0·00	102
26	Brisbane 203 ...	+ 2·3020	− 0·0190	...	− 18·983	+ 0·116	...	...
27	44 Ceti	+ 3·0043	+ 0·0019	+ 0·008	− 18·917	+ 0·154	+ 0·06	188
28	45 Ceti θ^1	+ 3·0030	+ 0·0018	− 0·007	− 18·917	+ 0·154	+ 0·20	184
29	93 Piscium ρ	+ 3·2239	+ 0·0163	− 0·006	− 18·866	+ 0·168	− 0·08	185
30	98 Piscium μ ...	+ 3·1178	+ 0·0089	+ 0·018	− 18·741	+ 0·169	+ 0·03	199
31	Bonn +2°. 221 ...	+ 3·0914	+ 0·0073	...	− 18·728	+ 0·169	...	...
32	99 Piscium η ...	+ 3·1984	+ 0·0141	− 0·000	− 18·704	+ 0·177	+ 0·00	208
33	102 Piscium π ...	+ 3·1764	+ 0·0125	− 0·006	− 18·519	+ 0·185	− 0·05	214
34	... ...	+ 3·6251	− 0·0101	...	− 18·489	+ 0·156	...	...
35	α Eridani (*Achernar*).	+ 2·2819	− 0·0128	+ 0·008	− 18·429	+ 0·137	+ 0·07	Stone.

Mean Positions of Stars for 1871, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	106 Piscium ν	4·7	...	1	34	43·13	85	9	58·2	11	0·88
37	Lacaille 507	6·0	...	1	37	22·94	151	26	21·2	1	0·84
38	110 Piscium o	4·4	...	1	38	35·07	81	29	34·2	3	0·89
39	6 Arietis β	2·8	...	1	47	31·02	69	49	26·7	6	0·92
40	Gould 1880	9·0	1	1	49	32·95	126	5	29·6	1	0·86
41	8 Arietis ι	5·2	...	1	50	18·31	72	48	45·6	1	0·84
42	W. B. E. 1·940	7·0	1	1	53	39·30	86	14	14·2	2	0·87
43	13 Arietis α	2·0	...	1	59	54·24	67	8	56·0	4	0·87
44	G. C. Z. II. 68	8·8	1	2	2	12·56	130	0	28·5	1	0·86
45	65 Ceti ξ^1	4·4	...	2	6	9·76	81	45	35·4	2	0·82
46	Bonn +2°.351	9·5	1	2	7	12·06	87	4	54·8	1	0·87
47	67 Ceti	5·5	...	2	10	32·98	97	1	5·0	6	0·89
48	Gould 2358	9·0	1	2	12	57·64	93	33	39·5	1	0·88
49	73 Ceti ξ^2	4·4	...	2	21	18·13	82	7	11·4	7	0·90
50	R. P. L. 26	8·0	...	2	24	17·48	3	31	2·4	1	0·90
51	Cor. Z. II. 766	8·9	1	2	28	25·26	129	44	36·4	1	0·88
52	... ...	9·2	1	2	30	58·12	147	33	4·9	1	0·96
53	Cor. Z. II. 845	10·0	1	2	31	26·78	151	37	36·5	1	0·83
54	32 Arietis ν	5·4	...	2	31	29·57	68	35	49·2	1	0·84
55	86 Ceti γ	3·6	...	2	36	37·08	87	18	33·7	3	0·96
56	87 Ceti μ	4·4	...	2	37	58·21	80	25	56·7	3	0·90
57	... ...	10·0	1	2	41	53·10	151	0	57·9	1	0·83
58	42 Arietis π	5·6	...	2	42	5·61	73	4	23·2	1	0·84
59	Cordoba 3207	9·0	1	2	52	32·23	150	15	25·6	1	0·82
60	91 Ceti λ	4·6	...	2	52	48·26	81 72	36	28·7	1	0·90
61	92 Ceti α (*Menkar*) ...	2·7	...	2	55	32·30	86	25	5·8	3	0·98
62	Cor. Z. II. 1603	9·0	1	2	59	6·90	130	36	43·9	1	0·87
63	Taylor 1052	5·7	1	3	0	34·67	150	14	23·1	1	0·86
64	57 Arietis δ	4·5	...	3	4	15·32	70	45	49·1	2	0·94
65	Taylor 1112	7·9	1	3	10	32·89	129	28	47·0	1	0·90
66	Taylor 1113	8·0	1	3	10	33·57	131	42	35·4	1	0·88
67	33 Persei α	1·9	...	3	15	7·38	40	36	1·7	1	0·95
68	1 Tauri o, Var. 5	3·8	...	3	17	52·42	81	25	38·3	1	0·82
69	2 Tauri ξ	3·8	...	3	20	10·73	80	43	9·5	1	0·96
70	Stone 1487	7·4	2	3	30	21·22	151	49	35·9	2	0·85

42.—Comparison star for Sylvia in 1868.
46.—Comparison star for Camilla in 1868.
48.—Observed for map of o Ceti Var. 1 (Mira).
50.—Carrington 852.
58.—Comparison star for Mars in 1879.
66.—o Tauri Var. 5.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	106 Piscium ν ...	+ 3·1175	+ 0·0091	− 0·003	− 18·367	+ 0·191	− 0·01	228
37	Lacaille 507	+ 2·0596	− 0·0099	...	− 18·271	+ 0·132	...	...
38	110 Piscium o ...	+ 3·1556	+ 0·0111	+ 0·003	− 18·228	+ 0·200	− 0·06	232
39	6 Arietis β	+ 3·2943	+ 0·0183	+ 0·005	− 17·888	+ 0·226	+ 0·10	252
40	Gould 1880	+ 2·6238	− 0·0063	...	− 17·807	+ 0·184	...	...
41	8 Arietis ι	+ 3·2635	+ 0·0163	+ 0·001	− 17·776	+ 0·228	+ 0·02	262
42	W. B. E. 1·940 ...	+ 3·1140	+ 0·0092	...	− 17·638	+ 0·224	...	...
43	13 Arietis α	+ 3·3537	+ 0·0203	+ 0·013	− 17·372	+ 0·252	+ 0·13	287
44	G. C. Z. II. 68 ...	+ 2·5018	− 0·0058	...	− 17·270	+ 0·192	...	...
45	65 Ceti ξ^1	+ 3·1735	+ 0·0116	− 0·003	− 17·091	+ 0·249	+ 0·00	306
46	Bonn +2°. 351 ...	+ 3·1080	+ 0·0090	...	− 17·045	+ 0·246	...	...
47	67 Ceti	+ 2·9834	+ 0·0049	+ 0·004	− 16·888	+ 0·242	+ 0·11	321
48	Gould 2358	+ 3·0266	+ 0·0064	...	− 16·773	+ 0·249	...	...
49	73 Ceti ξ^2	+ 3·1791	+ 0·0117	+ 0·001	− 16·363	+ 0·276	+ 0·00	347
50	R. P. L. 26	+ 15·8808	+ 3·6705	...	− 16·209	+ 1·367	...	...
51	Cor. Z. II. 766 ...	+ 2·4015	− 0·0027	...	− 15·994	+ 0·218	...	...
52	... ...	+ 1·7850	+ 0·0027	...	− 15·859	+ 0·166	...	...
53	Cor. Z. II. 845 ...	+ 1·5530	+ 0·0084	...	− 15·833	+ 0·146	...	...
54	32 Arietis ν	+ 3·3939	+ 0·0193	− 0·002	− 15·830	+ 0·310	+ 0·01	367
55	86 Ceti γ	+ 3·1118	+ 0·0094	− 0·011	− 15·552	+ 0·294	+ 0·16	383
56	87 Ceti μ	+ 3·2155	+ 0·0120	+ 0·016	− 15·477	+ 0·305	+ 0·02	387
57	... ...	+ 1·5057	+ 0·0099	...	− 15·257	+ 0·149	...	...
58	42 Arietis π	+ 3·3366	+ 0·0163	− 0·001	− 15·243	+ 0·322	− 0·00	397
59	Cordoba 3207 ...	+ 1·4723	+ 0·0107	...	− 14·635	+ 0·153	...	...
60	91 Ceti λ	+ 3·2072	+ 0·0117	− 0·001	− 14·619	+ 0·326	+ 0·01	419
61	92 Ceti α (*Menkar*) ...	+ 3·1301	+ 0·0098	− 0·003	− 14·454	+ 0·323	+ 0·07	428
62	Cor. Z. II. 1603 ...	+ 2·2646	+ 0·0003	...	− 14·235	+ 0·239	...	...
63	Taylor 1052	+ 1·4146	+ 0·0120	...	− 14·144	+ 0·152	...	...
64	57 Arietis δ	+ 3·4081	+ 0·0171	+ 0·010	− 13·915	+ 0·364	− 0·01	446
65	Taylor 1112	+ 2·2584	+ 0·0009	...	− 13·514	+ 0·249	...	...
66	Taylor 1113	+ 2·1917	+ 0·0011	...	− 13·512	+ 0·242	...	...
67	33 Persei α	+ 4·2454	+ 0·0483	+ 0·002	− 13·215	+ 0·472	+ 0·08	464
68	1 Tauri o, Var. 5. ...	+ 3·2253	+ 0·0115	− 0·005	− 13·033	+ 0·364	+ 0·07	477
69	2 Tauri ξ	+ 3·2396	+ 0·0117	+ 0·003	− 12·879	+ 0·368	+ 0·05	481
70	Stone 1487	+ 1·0895	+ 0·0190	...	− 12·183	+ 0·131	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	25 Tauri η (*Alcyone*) ...	3·0	...	3	39	49·15	66	17	45·9	6	0·62
72	33 Tauri	6·4	...	3	49	25·08	67	12	5·6	1	0·90
73	Gould 4391	9·0	1	3	50	59·76	147	27	58·7	1	0·83
74	34 Eridani γ^1	3·0	...	3	52	0·64	103	52	39·0	7	0·28
75	... ...	9·5	1	3	53	20·24	128	24	11·6	1	0·97
76	37 Tauri A^1	4·4	...	3	57	4·25	68	16	23·5	2	0·86
77	38 Eridani o^1	4·1	...	4	5	34·11	97	10	35·2	8	0·35
78	74 Tauri ϵ	3·7	...	4	21	5·12	71	6	30·4	9	0·51
79	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	31·20	73	45	10·2	6	0·49
80	94 Tauri τ	4·4	...	4	34	30·30	67	17	36·6	1	0·83
81	97 Tauri ζ	5·1	...	4	43	49·85	71	22	57·1	1	0·83
82	3 Aurigæ ι	2·7	...	4	48	35·67	57	2	29·2	2	0·94
83	2 Leporis ϵ	3·3	...	5	0	0·06	112	32	47·7	1	0·04
84	G. C. Z. V. 230	8·6	1	5	6	15·66	131	45	~~21·1~~ 10·3	1	0·07 [11·6]
85	19 Orionis β (*Rigel*) ...	0·3	...	5	8	20·26	98	21	10·5	2	0·52
86	Bonn +14°. 889	9·3	1	5	14	47·89	75	6	2·2	1	0·09
87	112 Tauri β	1·9	...	5	18	8·33	61	30	17·5	5	0·06
88	115 Tauri	5·4	...	5	19	38·60	72	9	4·8	1	0·09
89	119 Tauri	4·6	...	5	24	39·04	71	30	16·7	2	0·01
90	34 Orionis δ, Var. 1 ...	2·4	...	5	25	24·98	90	23	50·4	6	0·07
91	11 Leporis α	2·7	...	5	27	2·44	107	54	58·6	1	0·07
92	46 Orionis ϵ	1·8	...	5	29	40·07	91	17	12·3	2	0·08
93	123 Tauri 3	3·0	...	5	29	56·23	68	56	20·3	2	0·49
94	α Columbæ	2·7	...	5	34	58·67	124	8	40·3	4	0·09
95	54 Orionis χ^1	4·6	...	5	46	44·59	69	45	4·6	2	0·50
96	58 Orionis α, Var. 2 ...	0·9	...	5	48	11·27	82	37	9·9	6	0·21
97	Bonn +26°. 1016... ...	9·2	1	5	49	54·86	63	50	6·3	1	0·05
98	R. P. L. 43	6·6	...	5	55	7·80	3	14	16·3	1	0·12
99	1 Geminorum	4·3	...	5	56	16·63	66	43	59·6	1	0·01
100	67 Orionis ν	4·4	...	6	0	12·40	75	13	7·3	10	0·25
101	7 Geminorum η, Var. 7 ...	3·5	...	6	7	5·39	67	27	31·2	2	0·01
102	13 Geminorum μ	3·2	...	6	15	9·29	67	25	24·4	7	0·41
103	18 Geminorum ν	4·0	...	6	21	18·13	69	42	32·2	2	0·09
104	24 Geminorum γ	2·0	...	6	30	15·61	73	29	36·9	10	0·44
105	Lacaille 2406	7·9	1	6	34	17·33	147	25	52·6	1	0·09

69.—α Orionis Var. 2.
97.—Comparison star for Urania in 1862.
98.—Groombridge 1004.
101.—η Geminorum Var. 7.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	25 Tauri η (*Alcyone*).	+ 3·5527	+ 0·0177	− 0·000	− 11·516	+ 0·430	+ 0·04	521
72	33 Tauri	+ 3·5453	+ 0·0164	+ 0·005	− 10·819	+ 0·441	+ 0·02	541
73	Gould 4391	+ 1·2995	+ 0·0124	...	− 10·701	+ 0·165	...	...
74	34 Eridani γ... ...	+ 2·7920	+ 0·0047	+ 0 003	− 10·627	+ 0·351	+ 0·11	546
75	... ...	+ 2·1701	+ 0·0030	...	− 10·528	+ 0·274	...	...
76	37 Tauri A^1	+ 3·5301	+ 0·0153	+ 0·005	− 10·249	+ 0·447	+ 0·06	554
77	38 Eridani o^1 ...	+ 2·9244	+ 0·0058	− 0·001	− 9·602	+ 0·379	− 0·09	568
78	74 Tauri e	+ 3·4877	+ 0·0120	+ 0·007	− 8·390	+ 0·466	+ 0·03	609
79	87 Tauri α (*Aldebaran*)	+ 3·4311	+ 0·0105	+ 0·004	− 7·795	+ 0·464	+ 0·18	630
80	94 Tauri τ	+ 3·5932	+ 0·0122	− 0·001	− 7·309	+ 0·491	+ 0·01	648
81	97 Tauri i	+ 3·4980	+ 0·0100	+ 0·005	− 6·543	+ 0·485	+ 0·03	666
82	3 Aurigæ ι	+ 3·8972	+ 0·0144	+ 0·001	− 6·148	+ 0·544	+ 0·00	677
83	2 Leporis ϵ	+ 2·5360	+ 0·0033	+ 0·000	− 5·190	+ 0·359	+ 0·07	713
84	G. C. Z. V. 230 ...	+ 1·9115	+ 0·0038	...	− 4·659	+ 0·273	...	...
85	19 Orionis β (*Rigel*)...	+ 2·8807	+ 0·0040	− 0·001	− 4·482	+ 0·412	− 0·01	736
86	Bonn +14°.889 ...	+ 3·4210	+ 0·0062	...	− 3·930	+ 0·491	...	...
87	112 Tauri β	+ 3·7859	+ 0·0082	+ 0·001	− 3·643	+ 0·545	+ 0·18	756
88	115 Tauri	+ 3·4960	+ 0·0061	− 0·001	− 3·513	+ 0·504	+ 0·00	767
89	119 Tauri	+ 3·5141	+ 0·0057	− 0·000	− 3·081	+ 0·507	+ 0·00	783
90	34 Orionis δ, Var. 1...	+ 3·0029	+ 0·0038	− 0·001	− 3·015	+ 0·443	+ 0·01	787
91	11 Leporis α	+ 2·6443	+ 0·0029	− 0·001	− 2·874	+ 0·383	− 0·01	796
92	46 Orionis ϵ	+ 3·0424	+ 0·0035	− 0·002	− 2·647	+ 0·441	− 0·01	809
93	123 Tauri 3	+ 3·5826	+ 0·0055	− 0·001	− 2·624	+ 0·519	+ 0·02	800
94	α Columbæ	+ 2·1708	+ 0·0027	+ 0·005	− 2·186	+ 0·316	+ 0·03	...
95	54 Orionis χ^1 ...	+ 3·5647	+ 0·0034	− 0·015	− 1·159	+ 0·520	+ 0·10	856
96	58 Orionis α, Var. 2...	+ 3·2451	+ 0·0027	+ 0·001	− 1·033	+ 0·473	− 0·02	860
97	Bonn +26°.1016 ...	+ 3·7284	+ 0·0031	...	− 0·881	+ 0·543	...	...
98	R. P. L. 43	+ 26·7015	+ 0·1758	...	− 0·426	+ 0·893	...	...
99	1 Geminorum ...	+ 3·6469	+ 0·0021	− 0·001	− 0·325	+ 0·532	+ 0·09	880
100	67 Orionis ν	+ 3·4249	+ 0·0017	− 0·000	+ 0·018	+ 0·500	+ 0·01	887
101	7 Geminorum η, Var. 7	+ 3·6268	+ 0·0007	− 0·005	+ 0·621	+ 0·529	+ 0·00	909
102	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·325	+ 0·527	+ 0·10	929
103	18 Geminorum ν ...	+ 3·5644	− 0·0008	− 0·002	+ 1·863	+ 0·517	+ 0·01	942
104	24 Geminorum γ ...	+ 3·4649	− 0·0015	+ 0·002	+ 2·640	+ 0·500	+ 0·04	969
105	Lacaille 2406 ...	+ 1·0024	− 0·0015	...	+ 2·989	+ 0·144	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	27 Geminorum ϵ	3·2	...	6	35	59·80	64	44	41·2	1	0·01
107	51 (*Hev.*) Cephei... ...	5·3	...	6	39	14·51	2	45	41·6	8	0·39
108	9 Canis Majoris α (*Sirius*).	− 1·4	...	6	39	27·66	106	32	35·6	2	0·50
109	W. B. N. VI. 1272 ...	9·1	4	6	42	33·92	70	39	39·7	4	0·08
110	39 Geminorum	6·7	...	6	50	50·19	63	45	10·0	1	0·04
111	21 Canis Majoris e ...	1·5	...	6	53	33·36	118	47	53·6	6	0·40
112	43 Geminorum 3^3, Var. 1..	4·0	...	6	56	27·42	69	14	37·6	4	0·29
113	23 Canis Majoris γ ...	4·1	...	6	57	55·33	105	26	39·8	2	0·52
114	W. B. N. VI. 1762 ...	8·5	1	6	58	50·49	70	55	25·9	1	0·07
115	Bonn +23°. 1604... ...	9·2	1	6	59	37·08	67	0	31·8	1	0·05
116	Bonn +29°. 1482... ...	8·9	1	7	6	5·27	60	54	13·1	1	0·14
117	W. B. N. VII. 206. ...	8·3	5	7	7	47·32	70	57	52·1	5	0·09
118	55 Geminorum δ	3·6	...	7	12	25·06	67	46	58·8	10	0·44
119	60 Geminorum ι	4·0	...	7	17	42·68	61	56	53·4	1	0·09
120	Radcliffe 1959	7·5	1	7	19	8·57	41	49	13·8	1	0·04
121	66 Geminorum α^2 (*Castor*)	1·6	...	7	26	21·98	57	49	53·4	4	0·34
122	Taylor 3133	6·7	1	7	31	24·34	65	29	15·0	1	0·13
123	10 CanisMinoris α(*Procyon*)	0·5	...	7	32	32·81	84	26	48·4	1	0·17
124	77 Geminorum κ	3·6	...	7	36	39·49	65	17	42·3	2	0·13
125	Gould 9984	7·9	1	7	37	1·61	130	51	50·4	1	0·14
126	78 Geminorum β (*Pollux*).	1·1	...	7	37	25·21	61	39	53·5	3	0·14
127	R. P. L. 49	6·5	...	7	45	42·67	5	34	42·0	2	0·08
128	... ...	8·0	1	7	47	11·03	153	21	50·1	1	0·14
129	Gould 10480	8·0	1	7	52	34·26	151	31	45·1	1	0·10
130	6 Cancri	5·0	...	7	55	35·42	61	50	47·4	2	0·11
131	10 Cancri μ^3	5·2	...	8	0	10·30	68	2	46·2	3	0·67
132	15 Argûs	2·9	...	8	2	3·10	113	56	3·4	1	0·15
133	14 Cancri ψ^3	5·8	...	8	2	40·78	64	6	15·8	1	0·02
134	19 Cancri λ	5·7	...	8	12	51·94	65	34	27·3	1	0·22
135	... ...	9·0	1	8	12	57·06	130	36	33·5	1	0·15
136	38 Cancri η	5·5	...	8	25	14·75	69	7	22·0	9	0·33
137	43 Cancri γ	4·8	...	8	35	49·18	68	4	11·4	1	0·17
138	47 Cancri δ	4·3	...	8	37	21·21	71	22	24·7	1	0·09
139	50 Cancri A^3	5·8	1	8	39	51·76	77	25	7·7	1	0·13
140	11 Hydræ ϵ	3·6	1	8	39	56·58	83	6	35·0	6	0·16

109.—117.—Comparison stars for Hestia in 1870.
112.—3^3 Geminorum Var. 1.
114.—Comparison star for Hestia in 1867.
115.—Observed for map of R Geminorum Var. 2.
116.—Comparison star for Isis in 1866.
127.—Groombridge 1359.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
106	27 Geminorum ϵ ...	+ 3·6951	− 0·0035	− 0·002	+ 3·137	+ 0·531	+ 0·01	988
107	51 (*Hev.*) Cephei ...	+ 30·3840	− 1·9936	− 0·040	+ 3·417	+ 4·365	+ 0·05	Gr.80
108	9 Can. Maj. α (*Sirius*)	+ 2·6809	+ 0·0010	− 0·037	+ 3·436	+ 0·384	+ 1·20	994
109	W. B. N. VI. 1272 ...	+ 3·5382	− 0·0031	...	+ 3·703	+ 0·504	...	...
110	39 Geminorum ...	+ 3·7152	− 0·0058	− 0·013	+ 4·412	+ 0·527	− 0·08	1013
111	21 Canis Majoris ϵ ...	+ 2·3571	+ 0·0013	− 0·001	+ 4·644	+ 0·332	− 0·02	1023
112	43 Gem. 3^a Var. 1 ...	+ 3·5637	− 0·0050	− 0·001	+ 4·891	+ 0·503	− 0·00	1024
113	23 Canis Majoris γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·015	+ 0·381	− 0·00	1028
114	W. B. N. VI. 1762 ...	+ 3·5194	− 0·0049	...	+ 5·093	+ 0·495	...	...
115	Bonn +23°. 1604 ...	+ 3·6204	− 0·0059	...	+ 5·158	+ 0·509	...	...
116	Bonn +29°. 1482 ...	+ 3·7855	− 0·0088	...	+ 5·703	+ 0·528	...	...
117	W. B. N. VII. 206 ...	+ 3·5133	− 0·0058	...	+ 5·846	+ 0·487	...	...
118	55 Geminorum δ ...	+ 3·5912	− 0·0072	− 0·003	+ 6·232	+ 0·495	− 0·00	1062
119	60 Geminorum ι ...	+ 3·7440	− 0·0101	− 0·010	+ 6·671	+ 0·512	+ 0·08	1072
120	Radcliffe 1959 ...	+ 4·4782	− 0·0245	...	+ 6·789	+ 0·611	...	...
121	66 Gem. α^2 (*Castor*)...	+ 3·8540	− 0·0133	− 0·015	+ 7·380	+ 0·519	+ 0·08	1087
122	Taylor 3133	+ 3·6340	− 0·0102	...	+ 7·787	+ 0·487	...	...
123	10 Canis Minoris α ...	+ 3·1917	− 0·0041	− 0·047	+ 7·880	+ 0·425	+ 1·03	1106
124	77 Geminorum κ ...	+ 3·6334	− 0·0109	− 0·003	+ 8·210	+ 0·480	+ 0·06	1111
125	Gould 9984	+ 2·0176	+ 0·0009	...	+ 8·217	+ 0·264	...	...
126	78 Gem. β (*Pollux*) ...	+ 3·7289	− 0·0128	− 0·048	+ 8·270	+ 0·491	+ 0·05	1112
127	R. P. L. 49	+ 15·3302	− 1·2333	...	+ 8·926	+ 1·998	...	...
128	... ...	+ 0·6928	− 0·0170	...	+ 9·041	+ 0·086	...	...
129	Gould 10480	+ 0·8980	− 0·0134	...	+ 9·459	+ 0·112	...	...
130	6 Cancri	+ 3·6985	− 0·0148	− 0·003	+ 9·691	+ 0·468	+ 0·04	1149
131	10 Cancri μ^b... ...	+ 3·5386	− 0·0117	+ 0·001	+ 10·040	+ 0·443	+ 0·06	1161
132	15 Argûs	+ 2·5609	+ 0·0009	− 0·008	+ 10·182	+ 0·318	− 0·06	1170
133	14 Cancri ψ^b... ...	+ 3·6305	− 0·0140	− 0·007	+ 10·230	+ 0·452	+ 0·35	1167
134	19 Cancri λ	+ 3·5802	− 0·0142	− 0·002	+ 10·986	+ 0·431	+ 0·03	1182
135	... ...	+ 2·1133	+ 0·0016	...	+ 10·992	+ 0·253	...	...
136	33 Cancri η	+ 3·4830	− 0·0129	− 0·004	+ 11·876	+ 0·404	+ 0·05	1207
137	43 Cancri γ	+ 3·4907	− 0·0143	− 0·009	+ 12·608	+ 0·390	+ 0·03	1230
138	47 Cancri δ	+ 3·4207	− 0·0125	− 0·008	+ 12·713	+ 0·382	+ 0·23	1236
139	50 Cancri A^2... ...	+ 3·3009	− 0·0095	− 0·006	+ 12·882	+ 0·364	+ 0·03	1242
140	11 Hydræ ϵ	+ 3·1959	− 0·0071	− 0·014	+ 12·887	+ 0·351	+ 0·02	1243

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
141	*f* Velorum	5·6	...	8	46	10·87	136	2	52·5	2	0·16
142	R. P. L. 60...	6·2	...	8	47	59·48	5	18	29·1	1	0·67
143	77 Cancri ξ	5·2	...	9	1	56·41	67	26	4·9	2	0·92
144	79 Cancri	6·5	...	9	2	55·97	67	28	53·6	1	0·20
145	83 Cancri	6·6	...	9	11	46·71	71	44	59·0	18	0·31
146	... ...	10·0	1	9	13	19·54	70	33	54·7	1	0·24
147	30 Hydræ α, Var. 2 ...	2·0	...	9	21	14·87	98	6	3·9	10	0·18
148	4 Leonis λ...	4·4	...	9	24	21·38	66	27	52·8	2	0·17
149	16 Leonis ψ	5·7	...	9	36	42·13	75	23	21·4	1	0·02
150	17 Leonis ε	3·1	...	9	38	31·50	65	37	59·6	10	0·19
151	R. P. L. 70	6·5	...	9	47	33·35	5	27	49·3	2	0·76
152	27 Leonis ν	5·3	...	9	51	17·09	76	56	27·4	1	0·92
153	29 Leonis π	5·0	...	9	53	23·68	81	20	17·6	13	0·25
154	30 Leonis η	3·6	...	10	0	17·84	72	36	34·6	1	0·92
155	32 Leonis α (*Regulus*) ...	1·4	...	10	1	30·01	77	24	12·9	12	0·27
156	R. P. L. 72	5·6	...	10	10	30·27	5	5	44·7	1	0·75
157	41 Leonis γ^1	2·2	...	10	12	51·39	69	30	26·2	18	0·22
158	47 Leonis ρ	4·0	...	10	26	1·05	80	1	50·1	20	0·26
159	53 Leonis ι	5·3	...	10	42	28·52	78	46	22·8	26	0·27
160	Gould 14795	9·5	1	10	42	58·32	148	58	14·0	1	0·26
161	R. P. L. 79	7·7	...	10	57	18·14	1	39	37·2	1	0·22
162	63 Leonis χ	4·7	...	10	58	21·68	81	58	1·6	23	0·29
163	Lalande 21371	7·7	1	11	3	52·43	77	59	56·4	1	0·22
164	68 Leonis δ	2·8	...	11	7	14·66	68	46	13·0	17	0·30
165	12 Crateris δ	3·9	...	11	12	53·61	104	4	52·1	5	0·30
166	Taylor 6072	7·4	13	11	14	20·11	84	24	46·1	14	0·30
167	77 Leonis σ	4·1	...	11	14	28·89	83	15	50·6	1	0·10
168	78 Leonis ι	4·0	...	11	17	11·84	78	45	38·1	2	0·59
169	Lalande 21819	7·9	1	11	21	19·08	86	27	34·4	1	0·10
170	Gould 15790	8·5	1	11	26	55·63	151	6	22·0	1	0·33
171	91 Leonis υ	4·5	...	11	30	20·68	90	6	43·0	4	0·26
172	W. B. E. XI. 573	7·8	3	11	33	51·12	84	8	43·0	3	0·37
173	W. B. E. XI. 582	8·8	2	11	34	19·43	84	19	59·7	2	0·32
174	Taylor 6272	7·8	12	11	35	31·47	84	32	19·6	14	0·29
175	2 Virginis ξ	4·9	...	11	38	37·85	81	1	30·9	1	0·33

142.—Carrington 1286.
147.—α Hydræ Var. 2.
151.—Carrington 1451.
154.—Comparison star for Mars in 1869.
156.—Groombridge 1620.
161.—Carrington 1689.
172.—173—174—Comparison stars for Mars in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
141	f Velorum	+ 2·0342	+ 0·0025	...	+ 13·300	+ 0·216	...	...
142	R. P. L. 60	+ 13·7662	− 1·7226	...	+ 13·420	+ 1·486	...	...
143	77 Cancri ξ	+ 3·4616	− 0·0159	− 0·001	+ 14·300	+ 0·348	− 0·03	1289
144	79 Cancri	+ 3·4590	− 0·0159	− 0·000	+ 14·361	+ 0·346	− 0·02	1291
145	83 Cancri	+ 3·3674	− 0·0134	− 0·009	+ 14·890	+ 0·323	+ 0·14	1309
146	... ...	+ 3·3857	− 0·0142	...	+ 14·981	+ 0·322	...	...
147	30 Hydræ α, Var. 2 ...	+ 2·9506	− 0·0013	− 0·002	+ 15·433	+ 0·268	− 0·05	1330
148	4 Leonis λ	+ 3·4379	− 0·0172	− 0·002	+ 15·605	+ 0·308	+ 0·03	1335
149	16 Leonis ψ	+ 3·2761	− 0·0115	− 0·001	+ 16·261	+ 0·273	+ 0·00	1366
150	17 Leonis ϵ	+ 3·4226	− 0·0180	− 0·004	+ 16·354	+ 0·282	+ 0·01	1368
151	R. P. L. 70	+ 10·7083	− 1·5695	...	+ 16·798	+ 0·846	...	...
152	27 Leonis ν	+ 3·2373	− 0·0106	− 0·003	+ 16·974	+ 0·245	+ 0·00	1395
153	29 Leonis π	+ 3·1790	− 0·0080	− 0·004	+ 17·072	+ 0·236	+ 0·01	1398
154	30 Leonis η	+ 3·2811	− 0·0131	+ 0·001	+ 17·381	+ 0·232	− 0·00	1403
155	32 Leonis α (*Regulus*).	+ 3·2198	− 0·0102	− 0·018	+ 17·433	+ 0·225	− 0·02	1406
156	R. P. L. 72	+ 9·9660	− 1·6391	− 0·096	+ 17·809	+ 0·660	− 0·04	1399
157	41 Leonis γ^1 ...	+ 3·2973	− 0·0148	+ 0·021	+ 17·903	+ 0·208	+ 0·14	1432
158	47 Leonis ρ	+ 3·1658	− 0·0080	− 0·001	+ 18·392	+ 0·176	− 0·01	1467
159	53 Leonis l	+ 3·1602	− 0·0080	− 0·002	+ 18·918	+ 0·145	+ 0·02	1500
160	Gould 14795	+ 2·3391	+ 0·0227	...	+ 18·933	+ 0·106	...	...
161	R. P. L. 79	+ 15·5345	− 9·0403	...	+ 19·309	+ 0·604	...	...
162	63 Leonis χ	+ 3·1222	− 0·0056	− 0·026	+ 19·333	+ 0·113	+ 0·02	1535
163	Lalande 21371 ...	+ 3·1411	− 0·0076	...	+ 19·456	+ 0·105	...	...
164	68 Leonis δ	+ 3·1906	− 0·0132	+ 0·010	+ 19·526	+ 0·098	+ 0·12	1546
165	12 Crateris δ ...	+ 3·0036	+ 0·0064	− 0·011	+ 19·633	+ 0·081	− 0·21	1557
166	Taylor 6072	+ 3·0980	− 0·0035	...	+ 19·658	+ 0·081	...	...
167	77 Leonis σ	+ 3·1033	− 0·0042	− 0·007	+ 19·660	+ 0·081	0·00	1558
168	78 Leonis ι	+ 3·1215	− 0·0064	+ 0·009	+ 19·706	+ 0·076	+ 0·06	1560
169	Lalande 21819 ...	+ 3·0860	− 0·0021	...	+ 19·770	+ 0·068	...	...
170	Gould 15790	+ 2·7239	+ 0·0415	...	+ 19·846	+ 0·049	...	...
171	91 Leonis υ	+ 3·0718	+ 0·0003	− 0·002	+ 19·887	+ 0·049	− 0·05	1586
172	W. B. E. XI. 573 ...	+ 3·0877	− 0·0026	...	+ 19·924	+ 0·042	...	...
173	W. B. E. XI. 582 ...	+ 3·0870	− 0·0024	...	+ 19·929	+ 0·041	...	...
174	Taylor 6272	+ 3·0858	− 0·0023	...	+ 19·940	+ 0·039	...	...
175	2 Virginis ξ	+ 3·0918	− 0·0040	+ 0·004	+ 19·968	+ 0·033	+ 0·01	1599

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
176	3 Virginis ν	4·2	...	11	39	13·67	82	44	52·1	2	0·18
177	... ...	9·8	6	11	41	55·94	84	33	58·0	6	0·30
178	94 Leonis β (*Deneb*) ...	2·2	...	11	42	28·65	74	42	25·4	3	0·30
179	Baily's Flamsteed 1656 ...	6·1	...	11	42	30·39	84	5	39·9	2	0·23
180	5 Virginis β	3·7	...	11	43	58·56	87	30	31·5	1	0·10
181	Bonn +5°.2550	9·3	3	11	44	28·58	84	47	13·2	3	0·33
182	Taylor 6350	8·4	5	11	47	27·54	84	24	14·7	8	0·27
183	W. B. E. XI. 805	7·6	3	11	47	51·92	85	14	44·0	3	0·33
184	Bonn +4°.2543	9·2	3	11	48	4·94	85	30	25·2	3	0·41
185	Bonn +4°.2550	10·3	2	11	50	54·51	85	21	39·3	2	0·40
186	Taylor 6389	7·0	1	11	51	37·25	85	47	58·9	4	0·22
187	7 Virginis b	5·2	...	11	53	20·49	85	37	35·1	3	0·20
188	8 Virginis π	4·4	...	11	54	15·75	82	39	59·8	3	0·13
189	Taylor 6413	8·9	4	11	54	34·07	85	38	56·1	4	0·24
190	Bonn +3°.2592	8·9	6	11	57	38·20	86	22	44·5	6	0·32
191	Taylor 6440	7·7	1	11	58	6·81	85	42	27·8	2	0·23
192	9 Virginis o	4·3	...	11	58	38·28	80	33	0·8	1	0·26
193	W. B. E. XI. 1058 ...	7·8	5	12	2	5·96	86	10	25·3	5	0·32
194	W. B. E. XII. 9	8·6	5	12	2	49·44	86	50	31·9	5	0·34
195	10 Virginis	6·1	...	12	3	4·75	87	22	39·2	5	0·19
196	2 Corvi ϵ	3·1	...	12	3	29·59	111	53	54·7	1	0·26
197	Lalande 22869	9·2	3	12	4	56·71	86	40	27·1	3	0·29
198	Bonn +3°.2614	9·7	1	12	5	59·00	86	36	5·0	1	0·41
199	W. B. E. XII. 87	7·5	3	12	7	20·52	87	1	17·8	4	0·32
200	W. B. E. XII. 139 ...	8·7	2	12	10	31·69	87	34	16·5	3	0·31
201	W. B. E. XII. 155 ...	7·9	4	12	11	21·77	87	42	27·9	4	0·31
202	W. B. E. XII. 174 ...	8·1	5	12	12	24·99	88	7	4·8	5	0·31
203	R. P. L. 92	6·7	...	12	13	4·27	2	50	51·3	1	0·90
204	15 Virginis η	4·0	...	12	13	18·35	89	56	59·6	7	0·28
205	16 Virginis c	5·2	...	12	13	47·94	85	58	8·2	7	0·22
206	W. B. E. XII. 269 ...	7·8	5	12	18	5·01	87	54	6·3	5	0·33
207	... ...	8·0	1	12	25	1·79	151	0	59·6	1	0·41
208	9 Corvi β	2·8	...	12	27	36·87	112	40	59·8	10	0·37
209	Taylor 6707	6·0	...	12	31	47·68	87	26	6·4	6	0·18
210	29 Virginis γ^1	3·5	...	12	35	7·18	90	44	28·1	1	0·33

177—181—183—184—185—190—191—193—194—197—198—199—200—201—202—206.—Comparison stars for Mars in 1871.
203.—Groombridge 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
176	3 Virginis ν	+ 3·0876	− 0·0031	− 0·003	+ 19·972	+ 0·032	+ 0·17	1601
177	... ...	+ 3·0822	− 0·0020	...	+ 19·993	+ 0·026	...	...
178	94 Leonis β (*Deneb*)...	+ 3·1001	− 0·0074	− 0·036	+ 19·996	+ 0·025	+ 0·10	1605
179	B. F. 1656	+ 3·0827	− 0·0022	...	+ 19·997	+ 0·025	...	...
180	5 Virginis β	+ 3·0763	− 0·0003	+ 0·048	+ 20·005	+ 0·023	+ 0·26	1606
181	Bonn + 5°. 2550 ...	+ 3·0804	− 0·0017	...	+ 20·009	+ 0·021	...	...
182	Taylor 6350	+ 3·0793	− 0·0017	...	+ 20·024	+ 0·015	...	...
183	W. B. E. XI. 805 ...	+ 3·0781	− 0·0013	...	+ 20·026	+ 0·014	...	...
184	Bonn + 4°. 2543 ...	+ 3·0775	− 0·0011	...	+ 20·027	+ 0·014	...	...
185	Bonn + 4°. 2550 ...	+ 3·0764	− 0·0010	...	+ 20·039	+ 0·008	...	...
186	Taylor 6389	+ 3·0757	− 0·0008	...	+ 20·042	+ 0·007	...	...
187	7 Virginis b	+ 3·0751	− 0·0008	− 0·002	+ 20·047	+ 0·005	− 0·02	1617
188	8 Virginis π	+ 3·0764	− 0·0022	− 0·003	+ 20·048	+ 0·002	+ 0·02	1618
189	Taylor 6413	+ 3·0745	− 0·0007	...	+ 20·049	+ 0·001	...	...
190	Bonn + 3°. 2592 ...	+ 3·0730	− 0·0001	...	+ 20·054	− 0·005	...	...
191	Taylor 6440	+ 3·0729	− 0·0004	...	+ 20·054	− 0·006	...	...
192	9 Virginis o	+ 3·0734	− 0·0032	− 0·016	+ 20·054	− 0·007	− 0·05	1623
193	W. B. E. XI. 1058 ...	+ 3·0713	0·0000	...	+ 20·054	− 0·014	...	...
194	W. B. E. XII. 9 ...	+ 3·0712	+ 0·0005	...	+ 20·054	− 0·015	...	...
195	10 Virginis	+ 3·0714	+ 0·0007	− 0·001	+ 20·053	− 0·013	+ 0·19	1625
196	2 Corvi ϵ	+ 3·0803	+ 0·0142	− 0·006	+ 20·053	− 0·016	− 0·02	1626
197	Lalande 22869 ...	+ 3·0705	+ 0·0005	...	+ 20·050	− 0·019	...	...
198	Bonn + 3°. 2614 ...	+ 3·0698	+ 0·0005	...	+ 20·048	− 0·021	...	...
199	W. B. E. XII. 87 ...	+ 3·0699	+ 0·0008	...	+ 20·045	− 0·024	...	...
200	W. B. E. XII. 139 ...	+ 3·0696	+ 0·0012	...	+ 20·033	− 0·030	...	...
201	W. B. E. XII. 155 ...	+ 3·0694	+ 0·0014	...	+ 20·030	− 0·032	...	...
202	W. B. E. XII. 174 ...	+ 3·0697	+ 0·0016	...	+ 20·025	− 0·034	...	...
203	R. P. L. 92	+ 1·5378	+ 0·0027	+ 0·285	+ 20·022	− 0·022	+ 0·02	1656
204	15 Virginis η ...	+ 3·0721	+ 0·0027	− 0·006	+ 20·020	− 0·035	+ 0·02	1647
205	16 Virginis c	+ 3·0665	+ 0·0006	− 0·021	+ 20·018	− 0·036	+ 0·06	1652
206	W. B. E. XII. 269 ...	+ 3·0682	+ 0·0018	...	+ 19·993	− 0·045	...	...
207	... ...	+ 3·3353	+ 0·0658	...	+ 19·935	− 0·061	...	...
208	9 Corvi β	+ 3·1392	+ 0·0164	− 0·003	+ 19·910	− 0·064	+ 0·05	1685
209	Taylor 6707	+ 3·0638	+ 0·0024	...	+ 19·862	− 0·071	...	...
210	29 Virginis γ^1 ...	+ 3·0747	+ 0·0043	− 0·039	+ 19·820	− 0·078	− 0·02	1698

Mean Positions of Stars for 1871, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	29 Virginis γ^2	3·5	...	12	35	7·48	90	44	32·5	2	0·26
212	... ...	9·2	2	12	39	51·44	141	56	33·7	2	0·40
213	Brisbane 4197	8·0	2	12	41	12·82	141	55	11·6	2	0·40
214	Brisbane 4200	9·0	1	12	42	3·68	141	51	54·4	1	0·40
215	38 Virginis	6·2	...	12	46	35·03	92	51	7·4	1	0·10
216	R. P. L. 99	5·6	...	12	48	12·71	5	53	9·5	7	0·66
217	43 Virginis δ	3·7	...	12	49	6·38	85	54	3·7	1	0·18
218	12 Canum Venaticorum ...	3·0	...	12	49	59·43	50	59	4·7	4	0·36
219	O. A. S. 12539	6·9	1	12	50	22·35	118	10	9·1	1	0·40
220	O. A. S. 12542	9·6	1	12	50	42·96	118	13	15·9	1	0·41
221	51 Virginis θ	4·4	...	13	3	16·33	94	50	59·9	16	0·43
222	R. P. L. 101	7·5	...	13	9	10·54	1	39	32·6	1	0·86
223	66 Virginis	5·8	...	13	17	50·37	94	29	22·1	4	0·26
224	67 Virginis α (*Spica*) ...	1·2	...	13	18	23·93	100	29	14·8	11	0·38
225	R. P. L. 103	7·3	...	13	19	55·40	4	34	14·5	1	0·41
226	79 Virginis 3	3·5	...	13	28	7·21	89	56	8·4	11	0·45
227	80 Virginis	5·8	...	13	28	48·69	94	44	19·2	4	0·26
228	Bonn +0°. 3090	9·4	2	13	35	20·86	89	27	40·8	2	0·42
229	Bonn +0°. 3091	9·6	1	13	36	18·66	89	37	5·8	1	0·41
230	O. A. S. 13100	8·6	1	13	37	37·16	116	59	50·8	1	0·40
231	85 Urs. Maj. η (*Benetnasch*)	2·0	...	13	42	27·42	40	2	31·1	5	0·38
232	... ...	9·5	1	13	45	55·49	128	25	17·3	1	0·33
233	8 Bootis η	2·9	...	13	48	32·54	70	57	17·8	6	0·38
234	... ...	8·7	1	13	50	28·41	149	56	13·7	1	0·40
235	... ...	8·0	1	13	50	35·81	123	45	50·0	1	0·45
236	93 Virginis τ	4·4	...	13	55	4·96	87	49	49·1	8	0·40
237	Lacaille 5794	7·0	1	13	57	35·11	152	49	40·7	1	0·45
238	94 Virginis	6·8	...	13	59	27·81	98	16	29·8	1	0·41
239	95 Virginis	5·7	...	13	59	53·54	98	41	50·5	2	0·26
240	Taylor 6585	7·7	1	14	1	47·03	124	16	5·4	1	0·45
241	... ...	8·0	1	14	5	29·14	129	22	20·0	1	0·45
242	Lacaille 5844	7·4	3	14	5	34·93	151	6	6·9	3	0·41
243	98 Virginis κ	4·3	...	14	6	1·04	99	40	20·3	1	0·18
244	99 Virginis ι	4·2	...	14	9	15·06	95	23	0·7	1	0·26
245	16 Bootis α (*Arcturus*) ...	0·0	...	14	9	46·66	70	8	43·1	4	0·40

216.—Groombridge 1940.
219—220.—Comparison stars for Danaë in 1869.
222.—Groombridge 2006.
225.—Groombridge 2007.
228—229.—Comparison stars for Isis in 1871.
230.—Comparison star for Atalanta in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
211	29 Virginis γ^2 ...	+ 3·0747	+ 0·0043	− 0·039	+ 19·820	− 0·078	− 0·02	1699
212	... ...	+ 3·3677	+ 0·0487	...	+ 19·751	− 0·092	...	...
213	Brisbane 4197 ...	+ 3·3774	+ 0·0490	...	+ 19·731	− 0·095	...	...
214	Brisbane 4200 ...	+ 3·3830	+ 0·0490	...	+ 19·718	− 0·097	...	...
215	38 Virginis	+ 3·0856	+ 0·0060	− 0·017	+ 19·642	− 0·099	+ 0·01	1718
216	R. P. L. 99	+ 0·3643	+ 0·2218	− 0·017	+ 19·613	− 0·019	− 0·02	1780
217	43 Virginis δ... ...	+ 3·0518	+ 0·0025	− 0·034	+ 19·596	− 0·103	+ 0·05	1723
218	12 Canum Venaticorum	+ 2·8377	− 0·0152	− 0·022	+ 19·580	− 0·098	− 0·07	1725
219	O. A. S. 12539 ...	+ 3·2282	+ 0·0217	...	+ 19·573	− 0·110	...	...
220	O. A. S. 12542 ...	+ 3·2296	+ 0·0218	...	+ 19·566	− 0·111	...	...
221	51 Virginis θ... ...	+ 3·1031	+ 0·0078	− 0·004	+ 19·295	− 0·132	+ 0·04	1747
222	R. P. L. 101	− 10·6486	+ 7·8218	...	+ 19·148	+ 0·454	...	...
223	66 Virginis	+ 3·1071	+ 0·0082	+ 0·009	+ 18·909	− 0·159	+ 0·02	1773
224	67 Virginis α (*Spica*).	+ 3·1551	+ 0·0116	− 0·004	+ 18·893	− 0·163	+ 0·02	1774
225	R. P. L. 103	− 2·6434	+ 0·9563	...	+ 18·847	+ 0·124	...	...
226	79 Virginis 3... ...	+ 3·0715	+ 0·0064	− 0·021	+ 18·591	− 0·176	− 0·06	1789
227	80 Virginis	+ 3·1140	+ 0·0088	− 0·001	+ 18·568	− 0·180	− 0·10	1790
228	Bonn +0°. 3090 ...	+ 3·0670	+ 0·0065	...	+ 18·344	− 0·189	...	...
229	Bonn +0°. 3091 ...	+ 3·0685	+ 0·0065	...	+ 18·310	− 0·191	...	...
230	O. A. S. 13100 ...	+ 3·3536	+ 0·0231	...	+ 18·263	− 0·210	...	...
231	85 Ursæ Majoris η ...	+ 2·3843	− 0·0103	− 0·012	+ 18·084	− 0·159	+ 0·01	1815
232	... ...	+ 3·5450	+ 0·0346	...	+ 17·951	− 0·238	...	...
233	8 Bootis η	+ 2·8616	− 0·0006	− 0·005	+ 17·847	− 0·199	+ 0·34	1821
234	... ...	+ 4·1429	+ 0·0844	...	+ 17·770	− 0·289	...	...
235	... ...	+ 3·4870	+ 0·0295	...	+ 17·764	− 0·248	...	...
236	93 Virginis τ... ...	+ 3·0477	+ 0·0064	− 0·001	+ 17·579	− 0·222	+ 0·03	1829
237	Lacaille 5794... ...	+ 4·3507	+ 0·0996	...	+ 17·472	− 0·318	...	...
238	94 Virginis	+ 3·1691	+ 0·0115	− 0·003	+ 17·391	− 0·237	− 0·01	1833
239	95 Virginis	+ 3·1744	+ 0·0118	...	+ 17·372	− 0·238	− 0·02	1834
240	Taylor 6585 ...	+ 3·5338	+ 0·0302	− 0·012	+ 17·289	− 0·268	...	...
241	... ...	+ 3·6433	+ 0·0362	...	+ 17·123	− 0·284	...	...
242	Lacaille 5844... ...	+ 4·3340	+ 0·0912	...	+ 17·118	− 0·335	...	...
243	98 Virginis κ... ...	+ 3·1913	+ 0·0122	− 0·000	+ 17·099	− 0·250	− 0·14	1842
244	99 Virginis ι	+ 3·1395	+ 0·0102	− 0·003	+ 16·949	− 0·252	+ 0·42	1846
245	16 Bootis α (*Arcturus*)	+ 2·9132	+ 0·0004	− 0·080	+ 16·925	− 0·227	+ 1·98	1847

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
246	... ...	8·8	1	14	19	58·77	124	40	19·3	1	0·45
247	... ...	8·9	1	14	22	22·23	122	35	55·8	1	0·45
248	25 Bootis ρ	3·6	...	14	26	16·25	59	3	41·2	3	0·43
249	Taylor 6848	7·4	2	14	33	15·91	136	43	9·5	2	0·39
250	36 Bootis ϵ (*Mirac*) ...	2·6	...	14	39	21·12	62	22	50·1	2	0·44
251	Brisbane 5069	7·8	1	14	41	50·88	131	18	31·3	1	0·40
252	9 Libræ α^2	3·0	...	14	43	44·68	105	30	16·4	5	0·41
253	O. A. N. 15004	7·9	1	14	54	6·63	39	22	43·8	1	0·43
254	Taylor 7017	7·8	2	14	57	38·23	150	37	40·0	2	0·42
255	43 Bootis ψ	4·5	...	14	58	55·08	62	32	52·7	4	0·46
256	21 Libræ ν^1	5·4	...	14	59	26·09	105	45	17·8	3	0·36
257	Taylor 7079	7·0	1	15	3	46·00	123	8	54·2	1	0·36
258	27 Libræ β	2·7	...	15	10	4·08	98	54	19·6	5	0·45
259	Lalande 28028	6·6	1	15	15	36·57	58	3	32·5	1	0·40
260	Taylor 7220	7·8	1	15	22	32·84	123	8	4·1	1	0·45
261	W. B. E. XV. 429... ...	9·3	1	15	24	25·45	101	29	57·6	1	0·51
262	Taylor 7240	7·2	1	15	24	51·704	130	2	58·6	1	0·41
263	38 Libræ γ	4·0	...	15	28	18·87	104	21	27·9	1	0·34
264	... ...	8·0	1	15	29	8·54	126	36	49·3	1	0·43
265	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	13·64	62	50	59·7	5	0·46
266	W. B. E. XV. 587 ...	8·8	1	15	32	16·52	103	28	56·7	1	0·51
267	24 Serpentis α	2·7	...	15	37	54·81	83	10	0·3	3	0·48
268	O. A. S. 14874	8·0	1	15	39	51·71	104	49	57·2	1	0·44
269	W. B. E. XV. 838 ...	7·6	1	15	44	23·412	104	28	17·9	1	0·41
270	O. A. S. 14996	9·7	1	15	46	53·65	105	16	44·4	1	0·51
271	O. A. S. 15055	7·1	1	15	49	47·045	105	39	23·6	2	0·46
272	... ...	7·3	2	15	51	36·14	143	46	31·4	2	0·45
273	Taylor 7439	8·0	3	15	54	54·30	126	46	18·6	3	0·49
274	Lalande 29193	7·6	1	15	56	6·77	86	58	49·1	1	0·43
275	W. B. E. XV. 1047 ...	7·9	1	15	56	18·09	91	17	21·8	1	0·44
276	8 Scorpii β^1	2·9	...	15	57	56·24	109	27	0·7	3	0·49
277	O. A. S. 15281	9·8	1	16	1	22·25	105	44	52·9	1	0·51
278	. . ..	7·7	1	16	4	35·76	107	53	42·2	1	0·45
279	1 Ophiuchi δ	2·8	...	16	7	35·16	93	21	37·6	4	0·51
280	Lalande 29610	8·0	2	16	8	33·96	105	33	37·9	2	0·43

253.—Comparison star for Comet 2, 1861.
259.—Observed for map of S Coronæ Var. 2.
261—277.—Comparison stars for Sappho in 1864.
263.—Comparison star for Comet 2, 1867.
266—268—269—270—271.—Comparison stars for Asia in 1861.
274—275.—Comparison stars for Comet 2, 1862.
278.—Comparison star for Sylvia in 1866.
280.—Comparison star for Donati's Comet in 1858.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
246	... ...	+ 3·6022	+ 0·0306	...	+ 16·429	− 0·308	...	...
247	... ...	+ 3·5698	+ 0·0285	...	+ 16·308	− 0·309	...	...
248	25 Bootis ρ	+ 2·5947	− 0·0015	− 0·009	+ 16·107	− 0·233	− 0·13	1869
249	Taylor 6848	+ 3·9524	+ 0·0469	...	+ 15·735	− 0·364	...	...
250	36 Bootis ϵ (*Mirac*) ...	+ 2·6240	− 0·0001	− 0·004	+ 15·399	− 0·252	− 0·00	1890
251	Brisbane 5069 ...	+ 3·8347	+ 0·0379	...	+ 15·258	− 0·369	...	...
252	9 Libræ a^2	+ 3·3151	+ 0·0154	− 0·009	+ 15·150	− 0·324	+ 0·07	1894
253	O. A. N. 15004 ...	+ 1·9504	+ 0·0017	...	+ 14·540	− 0·202	...	...
254	Taylor 7017	+ 4·7344	+ 0·0866	...	+ 14·326	− 0·488	...	...
255	43 Bootis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·248	− 0·271	+ 0·01	1922
256	21 Libræ ν^1	+ 3·3383	+ 0·0153	− 0·005	+ 14·216	− 0·349	+ 0·03	1919
257	Taylor 7079	+ 3·6997	+ 0·0273	...	+ 13·946	− 0·393	...	...
258	27 Libræ β	+ 3·2266	+ 0·0117	− 0·008	+ 13·544	− 0·353	+ 0·02	1934
259	Lalande 28028 ...	+ 2·4440	+ 0·0014	...	+ 13·183	− 0·274	...	...
260	Taylor 7220	+ 3·7469	+ 0·0258	...	+ 12·720	− 0·427	...	...
261	W. B. E. XV. 429 ...	+ 3·2840	+ 0·0125	...	+ 12·592	− 0·377	...	...
262	Taylor 7240	+ 3·9483	+ 0·0325	...	+ 12·562	− 0·453	...	...
263	38 Libræ γ	+ 3·3422	+ 0·0136	+ 0·004	+ 12·325	− 0·389	− 0·02	1964
264	... ...	+ 3·8581	+ 0·0285	...	+ 12·268	− 0·449	...	...
265	5 Cor. Bor. α (*Alphcta*)	+ 2·5296	+ 0·0023	+ 0·009	+ 12·262	− 0·297	+ 0·09	1973
266	W. B. E. XV. 587 ...	+ 3·3286	+ 0·0131	...	+ 12·050	− 0·393	...	...
267	24 Serpentis α ...	+ 2·9418	+ 0·0062	+ 0·008	+ 11·652	− 0·354	− 0·06	1990
268	O. A. S. 14874 ...	+ 3·3622	+ 0·0133	...	+ 11·513	− 0·405	...	...
269	W. B. E. XV. 838 ...	+ 3·3585	+ 0·0129	...	+ 11·186	− 0·408	...	...
270	O. A. S. 14996 ...	+ 3·3775	+ 0·0131	...	+ 11·003	− 0·416	...	...
271	O. A. S. 15055 ...	+ 3·3880	+ 0·0132	...	+ 10·791	− 0·421	...	...
272	... ...	+ 4·6183	+ 0·0506	...	+ 10·656	− 0·575	...	...
273	Taylor 7439	+ 3·9287	+ 0·0761	...	+ 10·410	− 0·493	...	...
274	Lalande 29193 ...	+ 3·0117	+ 0·0069	...	+ 10·321	− 0·380	...	...
275	W. B. E. XV. 1047 ...	+ 3·0981	+ 0·0079	...	+ 10·306	− 0·392	...	...
276	8 Scorpii β^1	+ 3·4788	+ 0·0142	− 0·003	+ 10·183	− 0·441	+ 0·03	2034
277	O. A. S. 15281 ...	+ 3·3998	+ 0·0124	...	+ 9·923	− 0·435	...	...
278	... ...	+ 3·4504	+ 0·0130	...	+ 9·677	− 0·444	...	...
279	1 Ophiuchi δ... ...	+ 3·1414	+ 0·0081	− 0·005	+ 9·447	− 0·408	+ 0·14	2065
280	Lalande 29610 ...	+ 3·4015	+ 0·0119	...	+ 9·371	− 0·442	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
281	O. A. S. 15504	8·9	1	16	11	45·75	106	42	30·2	1	0·41
282	O. A. S. 15544	8·0	1	16	13	10·86	106	46	10·9	1	0·43
283	O. A. S. 15552	9·3	1	16	13	38·31	107	23	2·8	1	0·51
284	... ...	8·0	1	16	14	46·62	146	12	7·6	1	0·53
285	4 Ophiuchi ψ	4·6	...	16	16	33·52	109	43	59·6	2	0·42
286	21 Scorpii α (*Antares*) ...	1·1	...	16	21	30·06	116	8	34·6	8	0·53
287	Lalande 30042	9·0	1	16	22	58·08	48	27	46·5	1	0·51
288	9 Ophiuchi ω	4·7	...	16	24	29·49	111	11	17·4	2	0·34
289	α Trianguli Australis ...	2·2	...	16	35	2·06	158	47	14·1	1	0·56
290	... ...	7·7	1	16	35	6·82	134	7	53·7	1	0·44
291	40 Herculis 3	3·1	...	16	36	25·41	58	9	43·7	7	0·53
292	... ...	9·0	1	16	45	4·19	130	18	55·1	1	0·51
293	... ...	7·8	1	16	48	1·05	121	5	48·5	2	0·64
294	27 Ophiuchi κ	3·4	...	16	51	33·79	80	25	20·9	7	0·55
295	O. A. S. 16232	9·8	1	16	54	22·15	110	15	21·2	1	0·64
296	... ...	7·6	1	16	55	41·45	109	57	14·4	2	0·45
297	O. A. S. 16288	7·8	1	16	56	54·46	119	50	45·7	2	0·60
298	22 Ursæ Minoris ϵ ...	4·5	...	16	59	16·43	7	45	15·9	2	0·32
299	... ...	9·5	1	17	6	6·30	130	54	18·9	1	0·64
300	... ...	8·5	1	17	6	13·53	130	50	57·9	1	0·64
301	... ...	9·0	...	17	6	36·19	130	54	34·0	1	0·64
302	64 Herculis α, Var. 1 ...	3·2	...	17	8	45·93	75	27	38·6	9	0·52
303	... ...	9·0	1	17	12	27·71	130	28	11·0	1	0·63
304	42 Ophiuchi θ	3·4	...	17	14	5·32	114	52	5·5	5	0·50
305	... ...	8·6	2	17	21	33·63	130	43	58·1	2	0·63
306	... ...	8·7	2	17	21	42·54	130	46	3·7	2	0·53
307	... ...	8·6	1	17	21	52·22	130	33	19·8	1	0·59
308	... ...	7·7	2	17	22	25·08	128	54	56·9	2	0·53
309	... ...	10·0	1	17	27	36·65	150	36	1·3	1	0·64
310	... ...	8·0	1	17	28	33·64	130	43	48·3	1	0·63
311	55 Ophiuchi α	2·2	...	17	28	56·79	77	20	39·0	7	0·61
312	... ...	9·0	1	17	29	52·65	130	57	43·6	1	0·63
313	... ...	9·2	2	17	34	41·76	128	57	45·0	2	0·64
314	... ...	10·0	1	17	35	2·83	128	35	40·1	1	0·63
315	58 Ophiuchi	5·0	...	17	35	42·06	111	37	4·9	2	0·42

281—282.—Comparison stars for Sappho in 1864.
283.—Comparison star for Sylvia in 1866.
287.—Comparison star for Comet 2, 1861.
293.—Comparison star for Alexandra in 1871.
295—296.—Observed for map of T Serpentis, Var. 4.
302.—α Herculis, Var. 1. Changes irregularly between 3rd and 4th magnitude.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
281	O. A. S. 15504 ...	+ 3·4296	+ 0·0121	...	+ 9·123	− 0·449	...	...
282	O. A. S. 15544 ...	+ 3·4321	+ 0·0119	...	+ 9·012	− 0·451	...	...
283	O. A. S. 15552 ...	+ 3·4465	+ 0·0121	...	+ 8·977	− 0·453	...	...
284	... ...	+ 4·8627	+ 0·0492	...	+ 8·887	− 0·638	...	...
285	4 Ophiuchi ψ ...	+ 3·5037	+ 0·0128	− 0·003	+ 8·747	− 0·464	+ 0·06	2082
286	21 Scorpii α (*Antares*)	+ 3·6687	+ 0·0150	− 0·002	+ 8·357	− 0·491	+ 0·03	2019
287	Lalande 30042 ...	+ 1·9923	+ 0·0040	...	+ 8·239	− 0·269	...	...
288	9 Ophiuchi ω... ...	+ 3·5461	+ 0·0126	+ 0·00	+ 8·117	− 0·476	− 0·05	2095
289	α Trianguli Australis.	+ 6·2826	+ 0·0907	0·00	+ 7·266	− 0·858	+ 0·06	Stone.
290	... ...	+ 4·2814	+ 0·0247	...	+ 7·259	− 0·584	...	...
291	40 Herculis 3 ...	+ 2·2966	+ 0·0033	− 0·036	+ 7·153	− 0·316	− 0·41	2127
292	... ...	+ 4·1465	+ 0·0192	...	+ 6·441	− 0·575	...	...
293	... ...	+ 3·8391	+ 0·0137	...	+ 6·195	− 0·536	...	...
294	27 Ophiuchi κ ...	+ 2·8565	+ 0·0044	− 0·021	+ 5·900	− 0·402	− 0·02	2156
295	O. A. S. 16232 ...	+ 3·5454	+ 0·0093	...	+ 5·665	− 0·498	...	...
296	... ...	+ 3·5386	+ 0·0091	...	+ 5·551	− 0·498	...	...
297	O. A. S. 16288 ...	+ 3·8105	+ 0·0119	...	+ 5·451	− 0·537	...	...
298	22 Ursæ Minoris ϵ ...	− 6·4033	+ 0·3062	+ 0·009	+ 5·252	+ 0·899	+ 0·00	2201
299	... ...	+ 4·1986	+ 0·0149	...	+ 4·673	− 0·597	...	...
300	... ...	+ 4·1966	+ 0·0148	...	+ 4·662	− 0·597	...	...
301	... ...	+ 4·1993	+ 0·0146	...	+ 4·631	− 0·598	...	...
302	64 Herculis α, Var. 1	+ 2·7341	+ 0·0035	− 0·002	+ 4·446	− 0·391	− 0·03	2183
303	... ...	+ 4·1884	+ 0·0132	...	+ 4·130	− 0·599	...	...
304	42 Ophiuchi θ ...	+ 3·6794	+ 0·0080	− 0·002	+ 3·991	− 0·528	+ 0·04	2189
305	... ...	+ 4·2073	+ 0·0111	...	+ 3·348	− 0·605	...	...
306	... ...	+ 4·2089	+ 0·0111	...	+ 3·335	− 0·606	...	...
307	... ...	+ 4·2005	+ 0·0109	...	+ 3·322	− 0·605	...	...
308	... ...	+ 4·1371	+ 0·0102	...	+ 3·274	− 0·596	...	...
309	... ...	+ 5·4212	+ 0·0219	...	+ 2·824	− 0·783	...	...
310	... ...	+ 4·2126	+ 0·0094	...	+ 2·743	− 0·609	...	...
311	55 Ophiuchi α ...	+ 2·7747	+ 0·0080	+ 0·007	+ 2·709	− 0·402	+ 0·22	2218
312	... ...	+ 4·2221	+ 0·0091	...	+ 2·628	− 0·611	...	...
313	... ...	+ 4·1469	+ 0·0075	...	+ 2·209	− 0·612	...	...
314	... ...	+ 4·1329	+ 0·0072	...	+ 2·179	− 0·600	...	...
315	58 Ophiuchi	+ 3·5991	+ 0·0050	− 0·007	+ 2·122	− 0·523	+ 0·04	2226

Mean Positions of Stars for 1871, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
316	... ...	9·7	1	17	36	40·67	150	36	20·2	1	0·63
317	... ...	10·0	1	17	39	45·82	127	17	37·5	1	0·64
318	... ...	8·3	1	17	40	1·98	127	21	48·7	1	0·59
319	... ...	9·0	1	17	40	12·74	127	14	48·7	1	0·63
320	86 Herculis μ	3·5	...	17	41	24·60	62	12	8·4	9	0·57
321	Taylor 8282	6·2	2	17	48	37·79	131	41	41·4	2	0·62
322	... ...	9·7	1	17	48	39·68	152	8	38·6	1	0·64
323	Taylor 8288	6·4	1	17	48	53·77	105	47	14·1	1	0·59
324	... ...	8·5	1	17	50	54·97	130	50	30·1	1	0·63
325	... ...	8·9	2	17	52	28·72	130	49	36·8	2	0·62
326	Lacaille 7517	8·0	1	17	53	1·02	149	10	28·0	1	0·57
327	33 Draconis γ	2·4	...	17	53	36·64	38	29	42·5	2	0·62
328	γ^1 Sagittarii	3·0	...	17	56	46·86	119	34	59·4	1	0·51
329	... ...	9·0	1	17	59	58·58	150	26	7·8	1	0·59
330	Bonn +30°. 3133... ...	8·0	1	18	3	19·30	59	1	10·6	1	0·63
331	... ...	9·0	1	18	3	19·30	131	44	25·9	1	0·67
332	13 Sagittarii μ^1	4·1	...	18	6	2·91	111	5	24·2	8	0·57
333	Lacaille 7622	7·5	1	18	6	32·43	133	12	13·3	1	0·62
334	... ...	9·4	2	18	13	23·39	127	48	53·9	2	0·65
335	23 Ursæ Minoris δ ...	4·3	...	18	13	57·31	3	23	38·0	6	0·40
336	Taylor 8461	6·2	2	18	14	55·16	134	10	16·2	2	0·60
337	Lalande 33818	8·2	1	18	15	24·79	101	55	13·5	1	0·62
338	21 Sagittarii	4·9	...	18	17	39·91	110	36	30·0	1	0·57
339	Taylor 8509	4·7	...	18	21	50·70	104	38	43·5	3	0·60
340	Taylor 8516 (2nd) ...	6·2	1	18	22	25·29	104	39	51·8	1	0·59
341	δ^2 Telescopii	6·0	1	18	22	29·51	135	50	32·6	1	0·61
342	V Sagittarii Var. 5 ...	8·2	2	18	23	50·26	108	20	57·3	3	0·63
343	Taylor 8527	5·2	...	18	23	52·83	108	29	19·8	1	0·51
344	O. A. S. 18346	8·0	1	18	24	37·22	109	12	44·8	1	0·62
345	... ...	9·0	1	18	28	48·20	135	34	13·8	1	0·63
346	... ...	9·8	1	18	29	53·66	135	12	13·5	1	0·64
347	... ...	8·3	1	18	29	57·04	135	51	31·8	1	0·67
348	3 Lyræ α (*Vega*)	8·2	...	18	32	34·23	51	20	6·1	7	0·59
349	... ...	9·0	1	18	35	10·25	136	44	36·1	1	0·64
350	... ...	7·9	3	18	36	7·07	136	43	46·1	3	0·62

...—331—333—345—346—347—349—350.—Comparison stars for Donati's Comet in 1858.
...ittarii Var. 6.
...rison star for Asia in 1865.

...p of U Sagittarii Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
316	... ...	+ 5·4332	+ 0·0162	...	+ 2·036	− 0·797	...	...
317	... ...	+ 4·0865	+ 0·0061	...	+ 1·769	− 0·594	...	...
318	... ...	+ 4·0892	+ 0·0060	...	+ 1·744	− 0·595	...	...
319	... ...	+ 4·0850	+ 0·0060	...	+ 1·729	− 0·594	...	...
320	86 Herculis μ ...	+ 2·3696	+ 0·0025	− 0·024	+ 1·625	− 0·346	+ 0·75	2237
321	Taylor 8282	+ 4·2616	+ 0·0046	...	+ 0·994	− 0·621	...	...
322	... ...	+ 5·5990	+ 0·0090	...	+ 0·992	− 0·815	...	...
323	Taylor 8288	+ 3·4497	+ 0·0029	...	+ 0·971	− 0·503	...	...
324	... ...	+ 4·2270	+ 0·0042	...	+ 0·795	− 0·616	...	...
325	... ...	+ 4·2267	+ 0·0037	...	+ 0·658	− 0·614	...	...
326	Lacaille 7517 ...	+ 5·3117	+ 0·0053	...	+ 0·610	− 0·774	...	...
327	33 Draconis γ ...	+ 1·3917	+ 0·0030	− 0·002	+ 0·559	− 0·203	+ 0·03	2267
328	γ^1 Sagittarii... ...	+ 3·8310	+ 0·0021	...	+ 0·281	− 0·559	...	...
329	... ...	+ 5·4293	+ 0·0012	...	+ 0·002	− 0·792	...	...
330	Bonn +30°. 3133 ...	+ 2·2696	+ 0·0022	...	− 0·291	− 0·331	...	...
331	... ...	+ 4·2651	+ 0·0007	...	− 0·291	− 0·622	...	...
332	13 Sagittarii μ^1 ...	+ 3·5876	+ 0·0009	− 0·001	− 0·529	− 0·523	− 0·00	2284
333	Lacaille 7622 ...	+ 4·3274	− 0·0002	...	− 0·572	− 0·631	...	...
334	... ...	+ 4·1080	− 0·0015	...	− 1·171	− 0·598	...	...
335	23 Ursæ Minoris δ ...	− 19·4308	− 0·4076	+ 0·026	− 1·222	+ 2·830	− 0·04	2395
336	Taylor 8461	+ 4·3682	− 0·0028	...	− 1·304	− 0·635	...	...
337	Lalande 33818 ...	+ 3·3538	+ 0·0004	...	− 1·348	− 0·487	...	...
338	21 Sagittarii	+ 3·5735	− 0·0004	− 0·002	− 1·544	− 0·519	+ 0·00	2303
339	Taylor 8509	+ 3·4200	− 0·0003	...	− 1·909	− 0·496	...	...
340	Taylor 8516 (2nd) ...	+ 3·4203	− 0·0005	...	− 1·959	− 0·495	...	...
341	δ^2 Telescopii... ...	+ 4·4423	− 0·0057	− 0·003	− 1·964	− 0·642	+ 0·05	Stone
342	V Sagittarii Var. 5 ...	+ 3·5132	− 0·0010	...	− 2·082	− 0·509	...	...
343	Taylor 8527	+ 3·5167	− 0·0010	...	− 2·082	− 0·509	...	...
344	O. A. S. 18346 ...	+ 3·5354	− 0·0011	...	− 2·150	− 0·512	...	...
345	... ...	+ 4·4253	− 0·0073	...	− 2·513	− 0·640	...	...
346	... ...	+ 4·4072	− 0·0078	...	− 2·609	− 0·636	...	...
347	... ...	+ 4·4382	− 0·0080	...	− 2·614	− 0·641	...	...
348	3 Lyræ α (*Vega*) ...	+ 2·0131	+ 0·0016	+ 0·017	− 2·840	− 0·290	− 0·30	2341
349	... ...	+ 4·4764	− 0·0098	...	− 3·065	− 0·644	...	...
350	... ...	+ 4·4748	− 0·0100	...	− 3·147	− 0·644	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
351	R Scuti Var. 1	5·7	1	18	40	35·68	95	50	28·4	1	0·63
352	10 Lyræ β, Var. 1 ...	...	...	18	45	18·99	56	47	8·4	7	0·56
353	... ...	8·7	2	18	46	19·20 15	126	40	28·3	2	0·66
354	... ...	9·0	1	18	47	25·70 66	137	44	27·6	1	0·67
355	Lacaille 7919	8·5	2	18	48	12·10	129	4	39·4	2	0·62
356	... ...	9·1	2	18	52	41·66	149	55	19·9	2	0·63
357	R. P. L. 131	6·6	...	18	56	43·38	3	27	25·4	1	0·07
358	39 Sagittarii o	3·9	...	18	56	57·23	111	55	41·4	1	0·57
359	O. A. S. 19032	9·2	1	18	57	30·82	111	16	20·0 16·8	1	0·64
360	17 Aquilæ 3	3·1	...	18	59	28·82	76	19	36·0	12	0·62
361	R Aquilæ Var. 3	7·5	1	19	0	9·38 3	81	57	48·3	1	0·67
362	Bonn +7°. 3971	9·7	1	19	1	12·45 2	82	0	55·3	1	0·67
363	41 Sagittarii π	3·1	...	19	2	5·55	111	13	34·2	1	0·57
364	... ...	8·3	1	19	3	38·48	139	22	4·5	1	0·62
365	... ...	9·5	1	19	7	35·15	129	47	0·5	1	0·64
366	42 Sagittarii ψ	5·2	...	19	7	37·63	115	28	36·0	1	0·43
367	... ...	9·8	1	19	8	47·35	129	48	21·4	1	0·64
368	25 Aquilæ ω	5·1	...	19	11	45·67	78	38	6·4	13	0·62
369	Lacaille 8074	6·7	...	19	13	6·66	132	15	14·8	1	0·64
370	30 Aquilæ δ	3·5	...	19	18	59·58	87	8	24·6	11	0·62
371	... ...	9·3	1	19	19	38·80 16	128	37	38·9	1	0·67
372	... ...	9·0	1	19	25	24·96	129	55	7·3	1	0·64
373	... ...	8·0	1	19	26	35·82 79	131	23	57·6	1	0·67
374	52 Sagittarii h^2	4·7	...	19	28	51·23 2	115	9	58·1	5	0·62
375	... ...	8·4	2	19	31	27·51	127	41	36·2	2	0·64
376	Lacaille 8173	8·0	1	19	32	10·42 12	143	14	37·4	1	0·67
377	13 Cygni θ...	...	...	19	33	28·46	40	2	59·2	1	0·64
378	... ...	8·2	1	19	34	18·20	127	44	21·0	1	0·59
379	50 Aquilæ γ	2·8	...	19	40	7·54	79	41	57·4	6	0·63
380	O. A. S. 19996	9·7	1	19	42	41·57 6	108	11	3·0	1	0·67
381	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	29·32	81	28	12·2	5	0·63
382	60 Aquilæ β	4·0	...	19	48	58·55	88	54	49·1	9	0·61
383	λ Ursæ Minoris	6·5	...	19	53	19·22 16·38	1	4	45·6	2	0·39
384	... ...	9·3	1	19	53	34·90 94	147	9	47·7	1	0·67
385	... ...	9·5	1	19	57	15·45	130	20	25·7	1	0·64

349—350.—Comparison stars for Donati's Comet of 1858.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
351	R Scuti Var. 1 ...	+ 3·2068	− 0·0011	...	− 3·533	− 0·458	...	...
352	10 Lyræ β, Var. 1 ...	+ 2·2138	+ 0·0015	− 0·001	− 3·939	− 0·315	− 0·02	2369
353	... ...	+ 4·0476	− 0·0084	...	− 4·025	− 0·576	...	...
354	... ...	+ 4·5122	− 0·0142	...	− 4·121	− 0·648	...	...
355	Lacaille 7919 ...	+ 4·1339	− 0·0098	...	− 4·186	− 0·588	...	...
356	... ...	+ 5·3199	− 0·0307	...	− 4·570	− 0·754	...	...
357	R. P. L. 131	− 18·3849	− 1·5634	...	− 4·914	+ 2·602	...	...
358	39 Sagittarii o ...	+ 3·5940	− 0·0053	+ 0·003	− 4·983	− 0·506	+ 0·06	2393
359	O. A. S. 19032 ...	+ 3·5763	− 0·0053	...	− 4·980	− 0·503	...	...
360	17 Aquilæ 3	+ 2·7578	+ 0·0003	− 0·003	− 5·147	− 0·387	+ 0·09	2405
361	R Aquilæ Var. 3 ...	+ 2·8900	− 0·0003	...	− 5·203	− 0·405	...	...
362	Bonn +7°.3971 ...	+ 2·8914	− 0·0004	...	− 5·291	− 0·405	...	...
363	41 Sagittarii π ...	+ 3·5726	− 0·0057	− 0·002	− 5·367	− 0·500	+ 0·03	2406
364	... ...	+ 4·5707	− 0·0208	...	− 5·497	− 0·640	...	...
365	... ...	+ 4·1374	− 0·0144	...	− 5·829	− 0·576	...	...
366	42 Sagittarii ψ ...	+ 3·6816	− 0·0075	+ 0·000	− 5·833	− 0·510	+ 0·03	2418
367	... ...	+ 4·1365	− 0·0146	...	− 5·930	− 0·574	...	...
368	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·177	− 0·388	− 0·03	2432
369	Lacaille 8074... ...	+ 4·2255	− 0·0174	...	− 6·289	− 0·582	...	...
370	30 Aquilæ δ	+ 3·0093	− 0·0018	+ 0·015	− 6·777	− 0·410	− 0·09	2451
371	... ...	+ 4·0767	− 0·0161	...	− 6·828	− 0·556	...	...
372	... ...	+ 4·1140	− 0·0181	...	− 7·302	− 0·557	...	...
373	... ...	+ 4·1678	− 0·0196	...	− 7·309	− 0·562	...	...
374	52 Sagittarii h^2 ...	+ 3·6536	− 0·0102	+ 0·002	− 7·582	− 0·490	+ 0·01	2478
375	... ...	+ 4·0241	− 0·0176	...	− 7·793	− 0·538	...	...
376	Lacaille 8173 ...	+ 4·7194	− 0·0358	...	− 7·849	− 0·631	...	...
377	13 Cygni θ	+ 1·6105	− 0·0016	− 0·003	− 7·908	− 0·213	− 0·24	2498
378	... ...	+ 4·0206	− 0·0182	...	− 8·021	− 0·535	...	...
379	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·485	− 0·373	− 0·01	2511
380	O. A. S. 19996 ...	+ 3·4679	− 0·0087	...	− 8·689	− 0·452	...	...
381	53 Aquilæ α (*Altair*)..	+ 2·8920	− 0·0014	+ 0·035	− 8·830	− 0·374	− 0·38	2524
382	60 Aquilæ β	+ 2·9454	− 0·0020	+ 0·001	− 9·181	− 0·378	+ 0·47	2538
383	λ Ursæ Minoris ...	− 59·3904	− 29·8144	− 0·050	− 9·516	+ 7·628	+ 0·00	2795
384	... ...	+ 4·8946	− 0·0523	...	− 9·536	− 0·626	...	...
385	... ...	+ 4·0622	− 0·0244	...	− 9·819	− 0·513	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
386	Lacaille 8370	7·7	1	20	7	34·43	152	18	1·0	1	0·71
387	5 Capricorni a^1	4·5	...	20	10	29·52	102	54	17·1	1	0·59
388	6 Capricorni a^2	3·8	...	20	10	53·66	102	56	34·5	4	0·63
389	... ...	8·0	1	20	11	38·75	106	15	26·3	1	0·62
390	Lalande 39045	6·3	2	20	12	20·05	50	1	58·3	2	0·58
391	α Pavonis	...	...	20	15	26·06	147	8	45·4	2	0·69
392	11 Capricorni ρ	5·0	...	20	21	30·00	108	14	17·2	11	0·63
393	24 (*Hev.*) Cephei	9·0	1	20	22	50·45	1	15	43·3	2	0·69
394	... ...	8·6	1	20	23	25·41	125	57	7·4	1	0·71
395	... ...	8·2	1	20	27	39·34	121	4	28·4	1	0·62
396	... ...	9·5	1	20	29	9·12	121	5	5·1	1	0·70
397	Taylor 9518	...	...	20	32	19·86	105	25	37·0	1	0·50
398	... ...	9·2	1	20	35	7·65	128	12	12·8	1	0·70
399	... ...	8·9	1	20	36	13·14	124	58	52·7	1	0·71
400	50 Cygni α (*Deneb*) ...	1·5	...	20	37	2·03	45	10	47·0	10	0·66
401	Lacaille 8571	7·5	1	20	43	27·24	150	11	24·5	1	0·70
402	... ...	8·3	1	20	44	3·27	124	56	35·6	1	0·74
403	32 Vulpeculæ	5·1	...	20	49	3·73	62	25	55·5	9	0·68
404	... ...	9·0	1	20	51	14·02	148	44	16·1	1	0·76
405	Lacaille 8680	7·5	1	20	51	50·33	126	37	35·8	1	0·70
406	... ...	9·4	2	20	52	2·33	126	36	27·4	2	0·71
407	... ...	9·6	2	20	54	28·25	142	57	38·2	2	0·68
408	... ...	...	...	20	57	36·82	107	40	27·1	1	0·50
409	... ...	9·3	1	21	0	9·47	128	59	48·2	1	0·70
410	... ...	9·1	3	21	1	38·07	120	0	58·1	3	0·75
411	... ...	9·3	1	21	3	25·30	145	5	2·6	1	0·76
412	64 Cygni 3	3·5	...	21	7	26·75	60	18	3·7	9	0·72
413	Lacaille 8748	8·3	2	21	10	18·27	145	5	58·3	2	0·71
414	32 Capricorni	4·4	...	21	15	3·61	107	22	56·5	1	0·58
415	... ...	9·2	1	21	15	26·75	130	14	21·8	1	0·76
416	... ...	9·0	1	21	19	7·62	153	50	44·5	1	0·75
417	... ...	7·9	1	21	21	36·86	128	54	31·4	1	0·72
418	... ...	9·6	1	21	23	21·45	110	5	36·0	1	0·76
419	22 Aquarii β	3·1	...	21	24	45·97	96	8	14·3	8	0·71
420	... ...	8·0	1	21	26	17·18	140	21	38·1	1	0·71

389.—Comparison star for Hestia in 1866.
401.—Comparison star for Sylvia in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
386	Lacaille 8370 ...	+ 5·2341	− 0·0772	...	− 10·596	− 0·643	...	...
387	5 Capricorni a^1 ...	+ 3·3303	− 0·0084	− 0·001	− 10·811	− 0·406	− 0·03	2593
388	6 Capricorni a^2 ...	+ 3·3306	− 0·0084	+ 0·002	− 10·842	− 0·403	− 0·02	2595
389	... ...	+ 3·3996	− 0·0098	...	− 10·897	− 0·412	...	...
390	Lalande 39045 ...	+ 2·1332	− 0·0017	+ 0·006	− 10·947	− 0·256	+ 0·01	2613
391	α Pavonis	+ 4·7913	− 0·0524	0·000	− 11·173	− 0·574	+ 0·10	Stone.
392	11 Capricorni ρ ...	+ 3·4314	− 0·0115	− 0·003	− 11·610	− 0·403	+ 0·01	2626
393	24 (*Hev.*) Cephei ...	− 46·1748	− 24·5392	...	− 11·703	− 5·474	...	...
394	... ...	+ 3·8581	− 0·0237	...	− 11·747	− 0·451	...	...
395	... ...	+ 3·7164	− 0·0200	...	− 12·044	− 0·429	...	...
396	... ...	+ 3·7135	− 0·0201	...	− 12·149	− 0·427	...	...
397	Taylor 9518	+ 3·3626	− 0·0106	...	− 12·369	− 0·381	...	...
398	... ...	+ 3·8925	− 0·0275	...	− 12·561	− 0·438	...	...
399	... ...	+ 3·7987	− 0·0242	...	− 12·635	− 0·426	...	...
400	50 Cygni α (*Deneb*)...	+ 2·0434	− 0·0021	− 0·000	− 12·691	− 0·226	− 0·00	2679
401	Lacaille 8571 ...	+ 4·8371	− 0·0787	...	− 13·121	− 0·529	...	...
402	... ...	+ 3·7771	− 0·0248	...	− 13·161	− 0·410	...	...
403	32 Vulpeculæ ...	+ 2·5556	+ 0·0026	− 0·002	− 13·488	− 0·276	+ 0·00	2769
404	... ...	+ 4·6879	− 0·0739	...	− 13·628	− 0·497	...	...
405	Lacaille 8630 ...	+ 3·7996	− 0·0272	...	− 13·667	− 0·400	...	...
406	... ...	+ 3·7985	− 0·0272	...	− 13·680	− 0·400	...	...
407	... ...	+ 4·3549	− 0·0553	...	− 13·835	− 0·450	...	...
408	... ...	+ 3·3759	− 0·0127	+ 0·004	− 14·046	− 0·346	+ 0·05	2738
409	... ...	+ 3·8372	− 0·0306	...	− 14·190	− 0·391	...	...
410	... ...	+ 3·6144	− 0·0215	...	− 14·281	− 0·364	...	...
411	... ...	+ 4·4050	− 0·0626	...	− 14·391	− 0·443	...	...
412	64 Cygni 3	+ 2·5508	+ 0·0038	− 0·002	− 14·634	− 0·248	+ 0·07	2769
413	Lacaille 8748 ...	+ 4·3651	− 0·0634	...	− 14·805	− 0·425	...	...
414	32 Capricorni ...	+ 3·3481	− 0·0130	− 0·000	− 15·081	− 0·312	− 0·01	2772
415	... ...	+ 3·8166	− 0·0391	...	− 15·104	− 0·361	...	...
416	... ...	+ 3·8302	− 0·1061	...	− 15·314	− 0·449	...	...
417	... ...	+ 3·7601	− 0·0326	...	− 15·453	− 0·343	...	...
418	... ...	+ 3·3811	− 0·0147	...	− 15·549	− 0·305	...	...
419	22 Aquarii β... ...	+ 3·1622	− 0·0071	− 0·001	− 15·628	− 0·282	+ 0·00	2797
420	... ...	+ 4·0752	− 0·0516	...	− 15·710	− 0·363	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
421	... ...	9·0	1	21	27	31·43	132	36	29·1	1	0·75
422	... ...	7·7	1	21	30	9·88	127	44	30·9	1	0·78
423	Taylor 10032	6·3	2	21	31	10·34	142	56	23·9	2	0·68
424	40 Capricorni γ	3·8	...	21	32	56·49	107	14	36·7	1	0·58
425	... ...	9·3	1	21	34	15·67	102	58	28·4	1	0·76
426	... ...	9·2	1	21	34	57·84	102	58	10·8	1	0·76
427	8 Pegasi ϵ	2·4	...	21	37	51·02	80	42	54·5	4	0·66
428	... ...	9·0	2	21	38	5·88	127	46	19·0	2	0·75
429	49 Capricorni δ	3·0	...	21	39	55·29	106	42	41·3	2	0·73
430	... ...	9·3	2	21	41	21·12	127	45	33·2	2	0·76
431	W. B. E. XXI. 975 ...	8·9	1	21	41	31·09	97	17	49·9	1	0·71
432	... ...	8·9	1	21	43	19·41	132	29	28·2	1	0·78
433	Lacaille 8948	7·3	1	21	45	27·85	127	30	0·4	1	0·76
11·53 434	16 Pegasi	5·0	...	21	47	11·543	64	40	51·3	3	0·71
435	... ...	9·3	1	21	51	7·47	127	27	27·1	1	0·76
436	... ...	8·9	1	21	53	11·35	127	28	37·6	1	0·74
437	... ...	9·0	1	21	53	13·19	129	30	40·8	1	0·76
438	Lacaille 9006	7·5	1	21	56	34·81	129	29	52·2	1	0·76
439	34 Aquarii α	3·2	...	21	59	9·43	90	56	43·8	6	0·74
440	33 Aquarii ι	4·3	...	21	59	28·13	104	29	40·5	1	0·50
10·074 441	W. B. E. XXI. 1413 ...	9·1	2	22	2	10·054	78	7	43·8	2	0·72
442	... ...	9·3	1	22	3	36·31	129	3	17·9	1	0·78
443	Lacaille 9047	7·5	2	22	4	21·51	128	56	18·7	2	0·77
444	43 Aquarii θ	4·3	...	22	10	1·44	98	25	29·0	3	0·73
445	... ...	7·7	1	22	12	28·34	129	24	37·3	1	0·78
446	... ...	8·0	2	22	12	56·10	150	35	44·2	2	0·78
447	... ...	9·3	1	22	14	41·27	146	32	22·7	1	0·78
448	... ...	8·3	1	22	15	8·87	129	24	13·2	1	0·76
449	W. B. E. XXII. 380 ...	9·3	1	22	18	46·07	88	15	31·3	1	0·71
450	... ...	9·5	1	22	19	17·13	140	43	41·5	1	0·78
451	R. P. L. 150	5·4	...	22	23	12·33	4	32	34·4	3	0·36
452	57 Aquarii σ	4·8	...	22	23	49·24	101	20	14·4	1	0·58
453	... ...	8·2	2	22	24	6·89	130	38	22·0	2	0·78
454	... ...	9·0	1	22	24	43·25	135	40	1·7	1	0·78
455	... ...	7·9	1	22	26	18·61	141	28	5·3	1	0·76

431.—Comparison star for Ariadne in 1864.
449.—Comparison star for Sappho in 1868.
451.—Groombridge 3820.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
421	... ...	+ 3·8314	− 0·0371	...	− 15·777	− 0·339	...	...
422	... ...	+ 3·7016	− 0·0305	...	− 15·919	− 0·322	...	...
423	Taylor 10032 ...	+ 4·1427	− 0·0584	...	− 15·974	− 0·359	...	...
424	40 Capricorni γ ...	+ 3·3206	− 0·0130	+ 0·012	− 16·065	− 0·283	+ 0·01	2815
425	... ...	+ 3·2552	− 0·0106	...	− 16·135	− 0·276	...	...
426	... ...	+ 3·2542	− 0·0106	...	− 16·173	− 0·273	...	...
427	8 Pegasi ε	+ 2·9451	− 0·0005	+ 0·001	− 16·319	− 0·242	− 0·01	2885
428	... ...	+ 3·0735	− 0·0307	...	− 16·332	− 0·304	...	...
429	49 Capricorni δ ...	+ 3·3025	− 0·0128	+ 0·017	− 16·421	− 0·270	+ 0·30	2847
430	... ...	+ 3·6612	− 0·0307	...	− 16·495	− 0·297	...	...
431	W. B. E. XXI. 975 ...	+ 3·1694	− 0·0076	...	− 16·504	− 0·256	...	...
432	... ...	+ 3·7601	− 0·0372	...	− 16·592	− 0·302	...	...
433	Lacaille 8918 ...	+ 3·0404	− 0·0304	...	− 16·607	− 0·287	...	...
434	16 Pegasi	+ 2·7258	+ 0·0052	− 0·001	− 16·781	− 0·210	+ 0·00	2864
435	... ...	+ 3·6183	− 0·0304	...	− 16·966	− 0·275	...	...
436	... ...	+ 3·6109	− 0·0304	...	− 17·060	− 0·270	...	...
437	... ...	+ 3·6515	− 0·0330	...	− 17·064	− 0·273	...	...
438	Lacaille 9006 ...	+ 3·6374	− 0·0329	...	− 17·216	− 0·266	...	...
439	34 Aquarii α	+ 3·0833	− 0·0041	− 0·001	− 17·331	− 0·219	− 0·00	2890
440	33 Aquarii ι	+ 3·2457	− 0·0113	0·000	− 17·344	− 0·231	+ 0·05	2889
441	W. B. E. XXI. 1413...	+ 2·9340	+ 0·0014	...	− 17·462	− 0·203	...	...
442	... ...	+ 3·5998	− 0·0312	...	− 17·523	− 0·236	...	...
443	Lacaille 9047 ...	+ 3·5944	− 0·0321	...	− 17·555	− 0·246	...	...
444	43 Aquarii θ	+ 3·1635	− 0·0075	+ 0·006	− 17·790	− 0·205	+ 0·02	2929
445	... ...	+ 3·5089	− 0·0325	...	− 17·887	− 0·228	...	...
446	... ...	+ 4·1407	− 0·0843	...	− 17·906	− 0·265	...	...
447	... ...	+ 3·9694	− 0·0679	...	− 17·974	− 0·249	...	...
448	... ...	+ 3·5573	− 0·0324	...	− 17·992	− 0·222	...	...
449	W. B. XXII. 380 ...	+ 3·0547	− 0·0023	...	− 18·130	− 0·183	...	...
550	... ...	+ 3·7079	− 0·0516	...	− 18·149	− 0·227	...	...
451	R. P. L. 150	− 3·8251	− 1·1969	+ 0·052	− 18·293	+ 0·287	− 0·04	2993
452	57 Aquarii σ	+ 3·1815	− 0·0088	− 0·001	− 18·314	− 0·182	+ 0·04	2966
453	... ...	+ 3·5384	− 0·0337	...	− 18·325	− 0·202	...	...
454	... ...	+ 3·6248	− 0·0412	...	− 18·346	− 0·206	...	...
455	... ...	+ 3·7896	− 0·0527	...	− 18·402	− 0·210	...	...

Mean Positions of Stars for 1871, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
456	Bonn +5°.5029	8·1	1	22	26	20·80	84	4	25·9	1	0·76
457	62 Aquarii η	4·2	...	22	28	43·54	90	46	54·1	3	0·74
458	42 Pegasi 3	3·6	...	22	35	1·65	79	50	29·3	7	0·77
459	71 Aquarii τ^2	4·1	...	22	42	45·68	104	16	21·6	1	0·58
460	... ...	8·9	2	22	43	51·17	130	34	26·3	2	0·78
461	... ...	8·0	1	22	44	9·28	135	40	49·5	1	0·76
462	... ...	9·9	2	22	44	31·43	135	34	58·8	2	0·81
463	... ...	8·4	2	22	45	6·05	135	39	4·4	2	0·75
464	... ...	9·0	1	22	49	37·58	135	25	40·4	1	0·82
465	24 Piscis Aus. α (*Fomalhaut*)	1·3	...	22	50	31·04	120	18	19·8	3	0·79
466	... ...	7·9	2	22	52	10·02	85	20	54·8	2	0·72
467	... ...	7·9	1	22	53	48·23	128	3	5·2	1	0·78
468	... ...	8·4	1	22	57	37·17	149	35	43·9	1	0·76
469	54 Pegasi α (*Markab*) ...	2·6	...	22	58	20·10	75	29	19·1	4	0·81
470	Lacaille 9372	7·7	1	23	0	48·47	150	25	57·0	1	0·78
471	... ...	7·3	1	23	7	49·18	129	52	48·2	1	0·78
472	... ...	9·0	1	23	8	33·25	150	29	2·7	1	0·82
473	Lacaille 9423	7·0	1	23	10	20·64	151	42	19·3	1	0·75
474	6 Piscium γ	3·8	...	23	10	28·64	87	25	20·6	6	0·81
475	... ...	8·8	1	23	11	42·03	136	52	4·7	1	0·82
476	... ...	9·1	3	23	17	17·51	127	25	9·6	3	0·76
477	8 Piscium κ	5·0	...	23	20	19·13	89	27	1·5	8	0·81
478	... ...	9·2	1	23	22	0·67	137	26	0·8	1	0·75
479	... ...	8·0	2	23	24	40·66	126	59	56·5	2	0·77
480	Lacaille 9514	8·9	1	23	26	15·91	131	33	27·7	1	0·82
481	... ...	9·0	1	23	30	2·95	130	4	47·0	1	0·82
482	17 Piscium ι	4·3	...	23	33	18·90	85	4	21·9	10	0·85
483	... ...	8·0	1	23	35	34·45	148	40	38·3	1	0·76
484	δ Sculptoris	4·6	...	23	42	12·17	118	50	37·6	9	0·84
485	... ...	8·0	1	23	42	20·91	142	2	6·4	1	0·75
486	... ...	8·7	1	23	42	26·38	150	47	38·6	1	0·80
487	... ...	9·5	1	23	43	4·95	150	51	45·1	1	0·82
488	... ...	8·7	2	23	47	13·98	128	7	33·7	2	0·75
489	Lacaille 9650	9·0	1	23	49	27·45	129	45	51·3	1	0·80
490	... ...	7·9	1	23	50	19·24	148	51	4·4	1	0·87

456.—Comparison star for Sappho in 1868.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
456	Bonn +5°.5029 ...	+ 3·1272	− 0·0001	...	− 18·403	− 0·167	...	...
457	62 Aquarii η	+ 3·0792	− 0·0031	+ 0·004	− 18·486	− 0·166	+ 0·05	2979
458	42 Pegasi 3	+ 2·9853	+ 0·0023	+ 0·004	− 18·692	− 0·149	+ 0·02	2992
459	71 Aquarii τ^2 ...	+ 3·1849	− 0·0098	− 0·003	− 18·026	− 0·146	+ 0·04	3013
460	... ...	+ 3·4457	− 0·0325	...	− 18·958	− 0·157	...	...
461	... ...	+ 3·5170	− 0·0396	...	− 18·967	− 0·159	...	...
462	... ...	+ 3·5134	− 0·0394	...	− 18·977	− 0·158	...	...
463	... ...	+ 3·5114	− 0·0395	...	− 18·993	− 0·157	...	...
464	... ...	+ 3·4824	− 0·0388	...	− 19·116	− 0·147	...	...
465	24 Piscis Australis α...	+ 3·3054	− 0·0210	+ 0·023	− 19·141	− 0·135	+ 0·16	3032
466	... ...	+ 3·0404	− 0·0005	...	− 19·183	− 0·122	...	...
467	.. ..	+ 3·3703	− 0·0285	...	− 19·224	− 0·132	...	...
468	... ...	+ 3·6848	− 0·0705	...	− 19·316	− 0·138	...	...
469	54 Pegasi α (*Markab*).	+ 2·9802	+ 0·0056	+ 0·003	− 19·333	− 0·107	+ 0·03	3050
470	Lacaille 9372 ...	+ 3·6741	− 0·0727	...	− 19·389	− 0·130	...	...
471	... ...	+ 3·3243	− 0·0294	...	− 19·537	− 0·102	...	...
472	... ...	+ 3·5979	− 0·0704	...	− 19·552	− 0·110	...	...
473	Lacaille 9423... ...	+ 3·6063	− 0·0743	...	− 19·585	− 0·106	...	...
474	6 Piscium γ	+ 3·0592	− 0·0005	+ 0·049	− 19·589	− 0·087	− 0·02	3082
475	... ...	+ 3·3707	− 0·0382	...	− 19·611	− 0·098	...	...
476	... ...	+ 3·1617	− 0·0259	...	− 19·707	− 0·081	...	...
477	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·755	− 0·069	+ 0·10	3116
478	... ...	+ 3·3108	− 0·0373	...	− 19·783	− 0·070	...	...
479	... ...	+ 3·2268	− 0·0247	...	− 19·816	− 0·063	...	...
480	Lacaille 9514 ...	+ 3·2460	− 0·0293	...	− 19·837	− 0·061	...	...
481	... ...	+ 3·2188	− 0·0272	...	− 19·884	− 0·052	...	...
482	17 Piscium ι	+ 3·0587	+ 0·0030	+ 0·023	− 19·919	− 0·042	+ 0·44	3148
483	... ...	+ 3·3060	− 0·0561	...	− 19·940	− 0·043	...	...
484	δ Sculptoris	+ 3·1292	− 0·0161	...	− 19·994	− 0·026	...	...
485	... ...	+ 3·2041	− 0·0408	...	− 19·995	− 0·028	...	...
486	... ...	+ 3·2553	− 0·0589	...	− 19·995	− 0·028	...	...
487	... ...	+ 3·2402	− 0·0590	...	− 20·000	− 0·027	...	...
488	... ...	+ 3·1206	− 0·0232	...	− 20·024	− 0·017	...	...
489	Lacaille 9650... ...	+ 3·1233	− 0·0244	...	− 20·033	− 0·012	...	...
490	... ...	+ 3·1656	− 0·0512	...	− 20·037	− 0·011	...	...

Mean Positions of Stars for 1871, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
491	... ...	8·0	1	23	52	7·46	152	18	18·8	1	0·76
492	28 Piscium ω	4·2	...	23	52	41·21	83	51	3·1	10	0·84
493	... ...	9·4	2	23	56	20·16	130	14	40·8	2	0·82
494	... ...	7·9	1	23	56	29·21	124	5	26·1	1	0·75
495	Taylor 10990	9·1	1	23	57	16·23	148	32	48·6	1	0·78
496	Taylor 10997	8·0	1	23	58	24·90	126	44	9·1	1	0·80

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
491	... ...	+ 3·1598	− 0·0590	...	− 20·043	− 0·008	...	...
492	28 Piscium ω... ...	+ 3·0676	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191
493	... ...	+ 3·0903	− 0·0240	...	− 20·052	− 0·001	...	...
494	... ...	+ 3·0861	− 0·0185	...	− 20·052	− 0·001	...	...
495	Taylor 10990 ...	+ 3·0983	− 0·0482	...	− 20·053	− 0·003	...	...
496	Taylor 10997 ...	+ 3·0789	− 0·0206	...	− 20·054	− 0·006	...	...

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1872

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
1 *Lalande* 47303.					
Oct. 28	7·0	0 1 14·81	...	118 13 13·3	R
31	7·0	1 14·21	...	13 17·0	R
Nov. 12	6·4	1 14·33	6	13 12·4	M
16	6·5	1 14·46	...	13 12·5	M
25	5·7	1 14·46	...	13 13·0	M
2 21 *Andromedæ a, Alpherat.*					
Oct. 14	...	0 1 46·55	...	61 37 0·2	R
29	...	1 46·47	...	36 59·9	R
30	...	1 46·43	...	36 59·5	R
Nov. 9	...	1 46·41	...	37 0·2	M
15	...	1 46·36	...	36 59·8	M
3 *Anon.*					
Nov. 25	9·2	0 6 35·71	...	131 5 38·7	M
4 88 *Pegasi* γ, *Algenib.*					
Oct. 14	...	0 6 38·76	...	75 31 41·2	R
25	...	6 38·65	...	31 41·3	R
30	...	6 38·81	...	31 41·2	R
31	...	6 38·82	...	31 42·1	R
Nov. 2	...	6 38·62	...	31 43·7	M
8	...	6 38·78	...	31 42·0	M
9	...	6 38·68	...	31 42·5	M
15	...	6 38·74	...	31 43·2	M
16	...	6 38·54	5	31 44·0	M
5 *Anon.*					
Oct. 31	9·3	0 17 12·30	5	26 24 38·2	R
Nov. 6	8·8	17 12·27	...	24 34·6	M
6 *R Andromedæ Var.* 1.					
Oct. 4	7·0	0 17 16·38	...	52 7 54·1	R
28	8·0	17 16·34	...	7 53·1	R
7 *O. A. N.* 317.					
Oct. 29	9·0	0 18 2·94	...	26 4 12·9	R
Nov. 7	8·6	18 2·93	...	4 15·7	M
20	8·5	18 2·91	...	4 15·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
8 *Anon.*					
Oct. 30	9·0	0 18 48·28	...	26 51 23·6	R
9 45 *Piscium.*					
Nov. 8	6·0	0 19 5·87	...	83 1 0·0	M
11	6·1	19 6·15	...	1 1·0	M
10 12 *Ceti.*					
Oct. 28	...	0 23 30·44	...	94 39 53·9	R
29	...	23 30·35	...	39 53·7	R
31	...	23 30·31	...	39 54·4	R
Nov. 2	...	23 30·44	...	39 55·3	M
16	...	23 30·55	...	39 53·6	M
11 *Anon.*					
Oct. 7	...	0 27 7·33	5	144 51 42·0	R
12 13 *Ceti.*					
Nov. 11	5·9	0 28 39·69	...	94 17 53·4	M
13 *Taylor* 184.					
Nov. 5	6·0	0 34 11·19	...	95 3 17·4	M
6	6·0	34 11·31	...	3 16·9	M
14 *W. B. E.* 0·585.					
Oct. 7	9·5	0 34 59·09	6	94 56 6·4	R
Nov. 7	8·7	34 59·15	...	56 9·5	M
25	8·6	34 59·18	6	56 9·6	M
30	8·7	34 59·17	...	56 9·4	M
15 16 *Ceti* β					
Oct. 14	...	0 37 9·67	...	108 41 24·1	R
25	...	37 9·87	...	41 23·1	R
29	...	37 9·74	...	41 24·4	R
31	...	37 9·70	6	41 24·7	R
Nov. 2	...	37 9·82	...	41 23·7	M
8	...	37 9·74	...	41 22·0	M
9	...	37 9·83	...	41 23·6	M
11	...	37 9·86	...	41 22·9	M
15	...	37 9·79	...	41 23·6	M
20	...	37 9·74	4	41 23·8	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
16		58 *Piscium.*			
Oct. 9	...	0 40 20·03	...	78 43 29·5	R
17		*Anon.*			
Dec. 4	9·7	0 49 15·22	3	153 47 12·1	R
18		2 *Ursæ Minoris—s.p.*			
Mar. 16	...	0 51 39·34	3	4 25 54·4	M
19		70 *Piscium.*			
Nov. 6	6·3	0 55 27·47	...	82 45 0·2	M
8	6·1	55 27·68	...	45 0·3	M
9	6·1	55 27·58	...	45 0·9	M
20	6·3	55 27·52	...	45 0·0	M
20		71 *Piscium* ε			
Oct. 28	...	0 56 18·04	...	82 47 56·9	R
Nov. 7	...	56 18·06	...	47 58·1	M
12	...	56 18·18	...	47 58·0	M
13	...	56 18·01	...	47 59·0	M
16	...	56 18·12	...	47 57·6	M
29	...	56 17·91	...	47 59·6	M
21		*Anon.*			
Nov. 25	8·0	1 3 28·09	...	150 13 43·4	M
22		*Anon.*			
Nov. 11	8·9	1 4 22·76	...	18 32 17·2	M
23		*Anon.*			
Nov. 16	8·0	1 7 44·65	...	152 57 33·4	M
30	8·3	7 44·56	...	57 30·4	M
24		*Anon.*			
Dec. 3	7·3	1 9 23·45	...	18 16 25·7	R
25		*Anon.*			
Nov. 20	9·3	1 10 33·46	...	81 47 13·0	M
26		1 *Ursæ Minoris α, Polaris.*			
Jan. 4	...	1 11 57·03	3	1 22 24·1	M
Oct. 21	...	11 56·74	3	22 21·0	R
Nov. 1	...	11 58·47	2	22 23·6	M
5	...	11 57·37	2	22 23·8	M
9	...	11 56·75	2	22 23·1	M
25	...	11 56·70	1	22 23·3	M
Dec. 7	...	11 57·55	3	22 21·7	R
		1 *Ursæ Minoris α, Polaris—s.p.*			
Mar. 27	...	1 11 57·70	2	1 22 25·1	M
Apl. 9	...	11 56·79	1	22 24·2	R
24	...	11 57·39	2	22 23·4	R
May 3	...	11 57·88	2	22 24·5	R
9	...	11 57·36	2	22 25·9	M
22	...	11 56·10	2	22 24·8	M
June 1	...	11 56·78	3	22 25·7	M
27		44 *Ceti.*			
Oct. 23	8·0	1 17 36·24	...	98 40 26·3	R
28		45 *Ceti* θ^1			
Nov. 12	...	1 17 37·52	...	98 50 41·0	M
29	...	17 37·63	...	50 42·2	M
Dec. 3	...	17 37·66	...	50 40·1	R
4	...	17 37·57	...	50 40·5	R
29		99 *Piscium* η			
Nov. 2	...	1 24 38·15	...	75 18 54·9	M
6	...	24 38·01	...	18 53·3	M
18	...	24 38·25	...	18 54·6	M
29	...	24 37·98	...	18 54·9	M
30	...	24 38·04	...	18 54·0	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
30		*Taylor* 496.			
Oct. 28	8·8	1 26 1·36	...	140 33 40·3	R
Nov. 1	8·0	26 1·22	...	33 41·1	M
31		*Anon.*			
Nov. 20	8·4	1 26 2·54	5	150 19 11·9	M
32		102 *Piscium* π			
Nov. 15	6·0	1 30 18·76	...	78 30 49·5	M
16	6·0	30 18·90	...	30 49·7	M
33		*a Eridani, Achernar.*			
Oct. 28	...	1 32 56·95	...	147 53 15·3	R
Dec. 7	...	32 56·94	...	53 18·2	R
34		106 *Piscium* ν			
Jan. 4	...	1 34 46 37	...	85 9 39·7	M
Nov. 5	...	34 46·31	...	9 39·9	M
7	...	34 46·28	...	9 40·0	M
8	...	34 46·29	...	9 38·8	M
25	...	34 46·34	...	9 39·9	M
Dec. 3	...	34 46·28	...	9 39·5	R
35		*Anon.*			
Nov. 30	8·7	1 38 49·97	...	152 0 28·0	M
36		*Anon.*			
Dec. 4	9·3	1 40 10·69	...	149 24 56·1	R
37		*Anon.*			
Oct. 28	...	1 40 43·47	...	128 34 35·2	R
38		*Anon.*			
Nov. 25	9·7	1 46 26·57	...	148 55 34·2	M
39		6 *Arietis* β			
Jan. 3	...	1 47 34·33	5	69 49 8·3	M
4	...	47 34·34	...	49 8·2	M
Nov. 7	...	47 34·25	...	49 10·4	M
9	...	47 34·34	...	49 8·1	M
11	...	47 34·24	...	49 8·3	M
18	...	47 34·29	...	49 8·8	M
20	...	47 34·26	...	49 7·9	M
Dec. 18	...	47 34·36	...	49 7·2	R
20	...	47 34·28	...	49 6·5	R
40		*V Piscium, Var.* 5.			
Dec. 4	8·0	1 47 36·86	5	81 50 59·2	R
7	...	47 36·94	...	50 59·3	R
10	8 0	47 36·89	...	51 2·0	R
41		*Bonn* $+3°.266$.			
Dec. 9	10·0	1 49 49·35	5	86 43 56·6	R
42		8 *Arietis* ι			
Nov. 2	6·0	1 50 21·71	...	72 48 31·7	M
15	6·0	50 21·53	...	48 30·6	M
29	6·2	50 21·38	...	48 31·7	M
43		*W. B. E.* I. 892.			
Nov. 1	8·9	1 51 21·40	5	86 57 18·5	M
44		*Anon.*			
Dec. 24	9·0	1 52 35·02	...	145 46 2·5	M
27	9·2	52 34·79	...	46 3·0	M
45		*Anon.*			
Dec. 10	9·3	1 53 18·54	...	151 20 33·6	R
13	9·8	53 18·45	...	20 31·4	R
46		*Anon.*			
Dec. 4	8·5	1 56 27·16	...	129 56 11·6	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
47		*Anon.*			
Oct. 30	9·3	1 56 27·44	...	129 24 54·5	R
48		*Anon.*			
Nov. 6	9·0	1 57 52·95	...	87 33 13·8	M
30	9·0	57 52·76	4	33 14·3	M
49		13 *Arietis* α			
Jan. 3	...	1 59 57·59	...	67 8 39·4	M
Nov. 7	...	59 57·68	...	8 39·3	M
11	...	59 57·50	...	8 39·0	M
12	...	58 57·57	...	8 38·2	M
Dec. 18	...	59 57·52	...	8 38·5	R
50		*Anon.*			
Dec. 10	9·4	2 1 18·49	5	148 45 22·1	R
13	9·8	1 18·53	...	45 19·4	R
51		17 *Arietis* η			
Nov. 15	5·9	2 5 38·10	...	69 23 30·3	M
16	5·7	5 38·11	...	23 29·8	M
25	5·7	5 38·18	...	23 30·4	M
52		*Anon.*			
Oct. 30	10·3	2 7 0·44	4	87 10 17·7	R
31	10·2	7 0·22	5	10 18·1	R
53		*R Arietis, Var.* 1.			
Oct. 29	9·0	2 8 50·32	4	65 32 24·6	R
Nov. 13	8·9	18 8 50·44	...	32 24·7	M
54		67 *Ceti.*			
Jan. 3	...	2 10 35·97	...	97 0 47·4	M
4	...	10 35·96	...	0 47·9	M
Nov. 12	...	10 35·96	...	0 47·5	M
30	...	10 36·05	...	0 48·1	M
Dec. 18	...	10 35·98	...	0 47·6	R
20	...	10 35·94	...	0 48·4	R
55		22 *Arietis* θ			
Oct. 26	...	2 11 0·47	...	70 41 33·4	R
56		73 *Ceti* ξ^2			
Jan. 3	...	2 21 21·04	...	82 6 53·2	M
4	...	21 21·27	...	6 53·5	M
Nov. 1	...	21 21·30	...	6 53·5	M
29	...	21 21·51	...	6 54·9	M
Dec. 4	...	21 21·26	4	6 52·1	R
20	...	21 21·27	...	6 54·1	R
57		*Anon.*			
Oct. 30	9·7	2 29 25·48	5	147 35 22·0	R
58		*Anon.*			
Oct. 31	10·2	2 29 36·98	4	84 58 30·0	R
59		32 *Arietis* ν			
Nov. 9	6·0	2 31 32·94	...	68 35 33·4	M
13	6·0	31 33·17	...	35 33·6	M
60		86 *Ceti* γ			
Jan. 4	...	2 36 40·15	5	87 18 17·1	M
Nov. 1	...	36 40·09	...	18 17·6	M
20	...	36 40·09	...	18 17·5	M
25	...	36 40·12	...	18 18·4	M
30	...	36 40·14	...	18 18·2	M
Dec. 3	...	36 39·93	...	18 19·0	R
4	...	36 40·10	...	18 17·6	R
61		42 *Arietis* π			
Nov. 11	5·0	2 42 9·00	...	73 4 11·2	M
62		*Lalande* 5483.			
Dec. 9	8·7	2 51 29·74	...	80 18 35·7	R
20	8·5	51 29·70	...	18 36·5	R
30	8·1	51 29·87	...	18 37·1	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
63		48 *Arietis* ε			
Nov. 16	5·8	2 51 53·63	...	69 10 24·6	M
64		*Lalande* 5558.			
Dec. 13	8·2	2 53 54·61	...	80 15 57·3	R
16	8·5	53 54·75	...	15 54·6	R
65		92 *Ceti α, Menkar.*			
Jan. 6	...	2 55 35·36	...	86 24 49·2	R
Nov. 20	...	55 35·35	...	24 50·4	M
25	...	55 35·35	...	24 50·4	M
30	...	55 35·35	...	24 51·3	M
Dec. 4	...	55 35·34	...	24 50·1	R
7	...	55 35·43	...	24 50·2	R
66		25 *Persei ρ, Var.* 2.			
Nov. 12	...	2 56 58·75	...	51 39 27·7	M
67		26 *Persei β, Algol, Var.* 1.			
Dec. 24	...	2 59 50·81	...	49 32 22·5	M
68		*R. P. L.* 33—*s.p.*			
June 8	...	3 2 24·70	3	5 33 0·1	R
69		57 *Arietis δ*			
Jan. 4	...	3 4 18·65	5	70 45 34·8	M
Nov. 25	...	4 18·69	...	45 34·5	M
Dec. 7	...	4 18·77	...	45 33·1	R
9	...	4 18·78	...	45 33·2	R
10	...	4 18·78	...	45 35·5	R
13	...	4 18·71	...	45 34·0	R
14	...	4 18·76	...	45 33·6	R
70		*Taylor* 1081.			
Nov. 16	7·8	3 5 23·20	...	151 38 25·6	M
71		58 *Arietis ζ*			
Dec. 30	6·0	3 7 32·82	...	69 25 56·0	M
72		*Anon.*			
Jan. 6	9·2	3 12 40·98	...	130 8 45·7	R
73		*Anon.*			
Dec. 10	8·7	3 12 52·08	...	129 25 57·5	R
74		*Anon.*			
Dec. 24	8·0	3 13 38·94	5	125 38 5·9	M
75		61 *Arietis* τ^1			
Nov. 25	5·5	3 13 50·18	6	69 18 58·5	M
76		*Anon.*			
Dec. 14	9·5	3 15 15·63	...	151 30 29·7	R
77		2 *Tauri ξ*			
Dec. 30	...	3 20 14·05	...	80 42 55·5	M
78		*Anon.*			
Dec. 13	9·6	3 21 9·66	5	54 46 5·5	R
79		*Anon.*			
Dec. 3	9·0	3 22 24·72	...	88 10 44·5	R
16	8·7	22 24·85	6	10 43·7	R
80		*Anon.*			
Jan. 6	9·5	3 23 32·80	...	130 8 36·6	R
Dec. 14	9·7	23 32·65	...	8 34·5	R
81		*Anon.*			
Jan. 8	9·0	3 23 57·59	...	126 20 55·8	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
82		*Anon.*			
Dec. 27	8·1	3 25 7·48	...	129 0 2·6	M
83		*Anon.*			
Jan. 6	9·3	3 32 2·85	...	129 48 26·8	R
9	9·2	32 2·69	...	48 26·3	R
84		*Anon.*			
Jan. 17	8·1	3 32 30·75	6	131 19 7·1	M
85		*Lacaille* 1166.			
Dec. 7	...	3 33 19·51	...	129 11 37·5	R
14	9·0	33 19·49	...	11 37·6	R
86		*Anon.*			
Dec. 3	9·0	3 33 36·88	...	127 41 34·4	R
9	8·5	33 36·86	...	41 34·1	R
87		*Lacaille* 1192.			
Jan. 8	7·8	3 35 9·70	...	147 42 13·5	R
Dec. 30	8·0	35 9·72	...	42 13·5	M
88		*Anon.*			
Dec. 24	8·6	3 35 29·56	...	150 11 41·1	M
89		*Anon.*			
Dec. 14	9·9	3 36 4·53	5	129 8 58·4	R
90		*Anon.*			
Jan. 18	8·0	3 37 9·29	...	148 25 56·4	M
91		17 *Tauri, Electra.*			
Dec. 16	...	3 37 16·76	6	66 17 29·0	R
20	...	37 16·52	...	17 29·7	R
92		*Anon.*			
Jan. 19	7·9	3 39 48·15	4	66 29 2·6	M
93		25 *Tauri* η, *Alcyone.*			
Jan. 6	...	3 39 52·66	...	66 17 33·9	R
Dec. 7	...	39 52·62	...	17 34·3	R
9	...	39 52·63	...	17 36·2	R
10	...	39 52·69	...	17 35·0	R
16	...	39 52·73	...	17 34·5	R
94		*Anon.*			
Jan. 9	8·0	3 41 6·21	6	147 1 36·9	R
95		*Lacaille* 1242.			
Jan. 8	8·0	3 41 56·18	5	147 3 44·2	R
9	9·3	41 56·11	5	3 44·8	R
96		33 *Tauri.*			
Jan. 11	6·5	3 49 28·37	...	67 11 56·0	R
Nov. 20	6·2	49 28·37	...	11 54·5	M
Dec. 9	...	49 28·62	...	11 55·2	R
10	...	49 28·68	...	11 55·9	R
97		*Anon.*			
Jan. 6	9·7	3 49 55·58	...	129 13 16·5	R
98		*Anon.*			
Jan. 20	8·8	3 50 6·17	...	129 10 45·9	M
99		34 *Eridani* γ^1			
Jan. 9	...	3 52 3·44	...	103 52 30·1	R
12	...	52 3·47	...	52 27·4	M
13	...	52 3·48	...	52 27·2	M
22	...	52 3·50	...	52 27·2	M
Dec. 13	...	52 3·47	...	52 28·3	R
30	...	52 3·53	...	52 28·7	M
100		*Anon.*			
Jan. 8	10·0	3 53 22·57	5	128 23 58·0	R
101		*Anon.*			
Jan. 10	9·0	3 53 52·89	...	148 7 0·9	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
102		*Anon.*			
Dec. 10	9·2	3 54 58·82	...	129 9 28·0	R
103		*Anon.*			
Dec. 9	9·0	3 55 50·83	...	129 18 15·5	R
104		*Taylor* 1392.			
Jan. 18	6·9	3 55 58·28	...	147 28 0·5	M
105		*R. P. L.* 35.			
Dec. 24	...	3 57 9·47	2	4 47 12·3	M
27	...	57 7·99	3	47 10·0	M
106		*Anon.*			
Jan. 9	9·0	4 5 8·60	...	150 4 18·2	R
107		38 *Eridani* o^1			
Jan. 6	...	4 5 37·09	...	97 10 24·4	R
8	...	5 36·97	...	10 25·4	R
17	...	5 37·09	...	10 23·5	M
19	...	5 37·14	...	10 23·9	M
24	...	5 37·09	...	10 25·2	M
Dec. 9	...	5 37·08	...	10 23·5	R
10	...	5 37·01	...	10 24·5	R
12	...	5 37·13	...	10 23·5	R
13	...	5 37·02	...	10 23·8	R
14	...	5 37·04	...	10 24·3	R
16	...	5 37·12	...	10 25·8	R
108		*Lacaille* 1418.			
Jan. 10	8·3	4 12 39·34	...	143 38 30·7	R
109		*Anon.*			
Jan. 6	9·2	4 12 45·70	...	129 9 36·4	R
110		*Lacaille* 1425.			
Jan. 11	5·5	4 13 7·44	...	152 30 53·5	R
12	6·0	13 7·27	...	30 51·6	M
111		*Anon.*			
Jan. 23	9·9	4 15 31·41	...	129 6 41·0	M
112		*Anon.*			
Jan. 9	9·0	4 15 56·95	...	128 38 39·6	R
113		62 *Tauri.*			
Jan. 31	6·5	4 16 16·45	...	65 59 59·4	M
114		74 *Tauri* ϵ			
Jan. 9	...	4 21 8·61	...	71 6 22·5	R
10	...	21 8·61	...	6 22·5	R
11	...	21 8·58	...	6 21·8	R
13	...	21 8·64	...	6 22·1	M
15	...	21 8·68	5	6 21·3	M
16	...	21 8·57	...	6 22·3	M
18	...	21 8·68	...	6 21·9	M
25	...	21 8·68	...	6 21·5	M
Dec. 12	...	21 8·64	...	6 21·3	R
14	...	21 8·60	...	6 21·0	R
115		*R Tauri Var.* 2.			
Dec. 27	7·9	4 21 16·91	6	80 7 30·8	M
30	8·0	21 16·93	2	7 31·8	M
116		*Anon.*			
Jan. 8	9·8	4 27 20·58	...	150 32 56·3	R
117		87 *Tauri* α, *Aldebaran.*			
Jan. 5	...	4 28 34·70	...	73 45 2·5	R
13	...	28 34·58	...	45 3·1	M
15	...	28 34·56	...	45 2·9	M
16	...	28 34·58	...	45 3·0	M
17	...	28 34·63	...	45 2·3	M
18	...	28 34·71	...	45 2·8	M
19	...	28 34·59	5	45 2·7	M
20	...	28 24·85	...	45 3·2	M
24	...	28 34·59	...	45 4·7	M

[6]

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
118		*Anon.*			
Jan. 31	9·0	4 31 54·18	4	142 58 35·5	M
119		*Lacaille* 1551—*2nd.*			
Dec. 9	10·0	4 32 18·80	...	153 5 22·4	R
120		*Anon.*			
Dec. 10	9·0	4 33 42·92	...	144 53 51·5	R
30	8·6	33 42·95	4	52 51·7	M
121		*Anon.*			
Jan. 11	8·2	4 34 3·30	...	67 31 7·0	R
Dec. 12	9·2	34 3·22	5	31 6·0	R
122		*Lacaille* 1566.			
Jan. 22	7·0	4 35 54·02	...	148 27 28·8	M
123		*Anon.*			
Jan. 8	10·0	4 36 40·19	4	64 18 14·1	R
124		*Anon.*			
Dec. 7	10·2	4 39 18·49	5	153 15 1·5	R
125		3 *Aurigæ* ι			
Jan. 4	...	4 48 39·66	...	57 2 22·1	M
5	...	48 39·54	...	2 20·6	R
10	...	48 39·58	...	2 22·6	R
11	...	48 39·59	...	2 22·8	R
12	...	48 39·51	...	2 21·6	M
13	...	48 39·58	...	2 20·1	M
15	...	48 39·59	5	2 21·8	M
16	...	48 39·59	...	2 22·6	M
18	...	48 39·53	...	2 21·7	M
19	...	48 39·55	...	2 20·8	M
23	...	48 39·70	...	2 23·2	M
24	...	48 39·61	...	2 23·8	M
25	...	48 39·57	...	2 21·4	M
Dec. 12	...	48 39·45	...	2 21·6	R
24	...	48 39·58	...	2 20·8	M
126		*R Orionis Var.* 3.			
Dec. 9	9·7	4 52 4·02	...	82 4 1·8	R
14	9·5	52 4·17	...	4 1·3	R
16	...	52 4·15	...	4 2·5	R
127		*Anon.*			
Jan. 17	8·7	4 52 35·13	...	129 39 4·7	M
128		7 *Aurigæ* ε, *Var.* 1			
Dec. 7	...	4 52 47·01	...	46 22 8·2	R
129		*Anon.*			
Jan. 20	9·0	4 52 47·31	...	150 37 9·1	M
29	9·1	52 47·25	6	37 7·5	M
130		2 *Leporis* ε			
Jan. 5	...	5 0 2·56	...	112 32 42·3	R
8	...	0 2·56	...	32 43·3	R
10	...	0 2·55	...	32 43·5	R
11	...	0 2·56	...	32 42·2	R
12	...	0 2·54	...	32 41·5	M
18	...	0 2·48	...	32 41·2	M
22	...	0 2·44	...	32 41·2	M
25	...	0 2·56	...	32 41·9	M
Dec. 27	...	0 2·36	...	32 41·4	M
131		*Taylor* 1852.			
Jan. 17	6·0	5 2 19·77	...	144 34 53·5	M
132		15 *Orionis.*			
Feb. 1	6·4	5 2 22·35	...	74 34 8·7	M
2	...	2 22·55	...	34 6·8	M
133		*Anon.*			
Jan. 10	9·0	5 6 17·48	5	131 45 7·3	R
Feb. 5	8·4	6 17·46	...	45 5·8	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
134	13 *Aurigæ α, Capella.*				
Feb. 1	...	5 7 14·21	5	44 8 7·7	M
135	19 *Orionis β, Rigel.*				
Jan. 8	...	5 8 23·21	...	98 21 6·5	R
9	...	8 23·19	...	21 7·8	R
16	...	8 23·20	...	21 6·0	M
19	...	8 23·19	...	21 6·6	M
Dec. 27	...	8 23·34	...	21 5·4	M
30	...	8 23·18	...	21 5·9	M
136	*Anon.*				
Jan. 18	9·0	5 8 35·38	4	150 35 46·3	M
137	109 *Tauri n*				
Jan. 20	6·0	5 11 35·36	6	68 2 19·4	M
22	6·4	11 35·25	...	2 18·7	M
138	*Anon.*				
Feb. 3	9·2	5 13 17·37	5	75 4 26·0	M
6	9·0	13 17·41	...	4 25·6	M
7	9·0	13 17·53	...	4 25·6	M
139	*Anon.*				
Feb. 2	9·4	5 14 51·63	6	75 5 55·4	M
5	9·3	14 51·34	...	5 58·0	M
15	9·8	14 51·39	5	5 56·4	R
140	112 *Tauri β*				
Jan. 5	...	5 18 12·09	...	61 30 12·4	R
8	...	18 12·13	...	30 13·6	R
9	...	18 12·13	...	30 11·1	R
12	...	18 12·16	...	30 12·5	M
15	...	18 12·07	...	30 10·4	M
17	...	18 12·11	...	30 13·5	M
23	...	18 12·14	...	30 14·0	M
Dec. 24	...	18 12·15	...	30 13·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
141	*Taylor* 1984.				
Jan. 29	7·7	5 18 56·95	6	150 54 22·7	M
142	*Anon.*				
Jan. 19	8·6	5 18 58·68	...	129 57 35·8	M
143	*Taylor* 1973.				
Jan. 16	6·2	5 19 10·50	...	129 47 56·9	M
144	115 *Tauri.*				
Jan. 30	6·0	5 19 42·19	...	72 9 2·5	M
31	6·0	19 42·27	...	9 1·9	M
Dec. 30	6·0	19 42·08	...	9 1·6	M
145	*R. P. L.* 40.				
Dec. 14	...	5 21 13·93	2	4 52 34·3	R
146	*Lacaille* 1854.				
Jan. 20	7·8	5 21 51·84	...	137 12 28·3	M
147	λ *Doradûs.*				
Feb. 1	6·5	5 24 27·21	...	149 1 19·4	M
148	*Anon.*				
Feb. 6	9·0	5 25 26·92	6	130 35 0·2	M
149	34 *Orionis δ, Var.* 1.				
Jan. 4	...	5 25 27·98	...	90 23 45·5	M
5	...	25 28·05	...	23 47·1	R
17	...	25 28·02	...	23 46·4	M
22	...	25 28·06	5	23 46·0	M
150	*Anon.*				
Feb. 15	9·2	5 25 36·37	5	155 50 55·4	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
151		11 *Leporis* α			
Jan. 29	...	5 27 4·97	5	107 54 57·5	M
Feb. 3	...	27 4·90	4	54 57·5	M
Dec. 24	...	27 5·21	...	54 57·0	M
27	...	27 5·21	4	54 56·9	M
152		*Taylor* 2057.			
Jan. 16	7·3	5 28 5·93	5	151 55 18·1	M
153		46 *Orionis* ϵ			
Jan. 5	...	5 29 43·07	...	91 17 10·7	R
15	...	29 43·15	...	17 11·3	M
Feb. 10	...	29 43·14	...	17 11·2	R
Dec. 30	...	29 43·04	...	17 9·8	M
154		123 *Tauri* ζ			
Feb. 8	...	5 29 59·60	...	68 56 17·0	R
9	...	29 59·76	...	56 17·2	R
155		*Anon.*			
Feb. 5	9·4	5 29 59·29	...	135 21 44·1	M
156		*Anon.*			
Jan. 19	7·3	5 31 5·37	...	150 12 44·5	M
157		*Anon.*			
Jan. 18	8·6	5 32 15·91	...	123 55 6·5	M
20	8·0	32 16·14	6	55 3·5	M
158		*Lacaille* 1916.			
Jan. 31	8·0	5 32 40·66	...	121 8 21·6	M
Feb. 7	7·8	32 40·81	...	8 22·2	M
159		126 *Tauri.*			
Jan. 30	...	5 33 53·88	...	73 32 7·3	M
Feb. 1	5·9	33 53·92	5	32 8·5	M
2	6·0	33 53·99	6	32 7·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
160		α *Columbæ*			
Jan. 5	...	5 35 0·96	4	124 8 38·5	R
23	...	35 0·86	...	8 37·8	M
Dec. 27	...	35 0·87	...	8 38·5	M
161		*Anon.*			
Feb. 6	8·7	5 36 51·17	...	135 48 24·7	M
162		*Anon.*			
Feb. 9	9·0	5 36 59·31	...	129 57 37·0	R
163		*Anon.*			
Feb. 8	8·5	5 39 37·42	...	79 0 1·1	R
164		*Taylor* 2145.			
Jan. 19	6·0	5 40 3·41	...	135 53 36·7	M
29	6·6	40 3·37	...	53 34·8	M
165		*Lacaille* 1984.			
Feb. 12	7·0	5 40 57·27	...	130 15 8·3	R
166		*Lacaille* 2010.			
Feb. 10	9·0	5 42 9·06	5	146 53 9·8	R
167		*Anon.*			
Jan. 20	7·6	5 42 20·00	...	137 3 21·6	M
Feb. 7	7·6	42 20·10	...	3 22·2	M
168		*Anon.*			
Feb. 15	9·5	5 44 57·68	...	137 10 8·3	R
169		54 *Orionis* χ^1			
Jan. 22	...	5 46 48·10	...	69 45 1·0	M
170		*Anon.*			
Jan. 31	8·8	5 47 15·02	6	135 46 45·2	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
171		58 *Orionis a, Var.* 1.			
Jan. 4	...	5 48 14·45	...	82 37 8·6	M
5	...	48 14·59	4	37 8·9	R
23	...	48 14·49	...	37 9·0	M
29	...	48 14·48	...	37 8·5	M
Feb. 14	...	48 14·43	...	37 8·7	R
Dec. 24	...	48 14·41	...	37 7·6	M
172		*Anon.*			
Feb. 1	8·9	5 49 33·51	...	121 9 45·1	M
6	8·9	49 33·89	5	9 44·5	M
173		*Anon.*			
Feb. 12	9·0	5 49 52·32	...	130 1 13·7	R
13	9·5	49 52·29	...	1 13·4	R
174		*Anon.*			
Feb. 10	9·5	5 49 58·28	...	63 50 5·0	R
175		*Lacaille* 2073.			
Jan. 19	7·1	5 50 43·65	...	137 12 34·4	M
Feb. 7	7·9	50 43·83	6	12 34·2	M
176		*Anon.*			
Feb. 21	9·5	5 52 1·76	...	140 36 33·8	R
177		*Anon.*			
Feb. 16	9·8	5 52 26·65	...	141 46 2·9	R
17	9·8	52 26·57	5	46 0·9	R
178		*Anon.*			
Feb. 15	9·2	5 52 56·76	...	129 32 28·1	R
179		*Anon.*			
Jan. 20	7·9	5 53 38·07	5	141 40 5·3	M
180		*R. P. L.* 43.			
Jan. 30	...	5 55 34·60	1	3 14 15·9	M
July 18	...	5 55 34·88	2	3 14 18·9	M
181		*Anon.*			
Jan. 28	9·3	5 57 12·90	...	136 1 0·8	M
31	9·1	57 12·78	...	1 0·8	M
182		67 *Orionis ν*			
Jan. 29	...	6 0 15·82	...	75 13 7·2	M
Feb. 9	...	0 15·80	...	13 6·0	R
14	...	0 16·06	...	13 5·6	R
15	...	0 15·84	...	13 6·9	R
183		*Anon.*			
Feb. 5	8·7	6 2 23·80	5	153 44 42·9	M
6	8·9	2 24·17	5	44 42·7	M
184		*Anon.*			
Feb. 12	9·4	6 4 6·41	...	150 5 31·0	R
13	9·8	4 6·24	5	5 29·5	R
185		*Anon.*			
Feb. 1	7·7	6 4 38·25	...	128 2 40·0	M
186		*Anon.*			
Feb. 10	8·8	6 4 46·98	5	136 49 44·1	R
17	8·3	4 46·93	...	49 44·8	R
187		*Anon.*			
Feb. 8	9·2	6 6 4·44	5	77 51 38·2	M
188		*Anon.*			
Feb. 15	9·2	6 6 44·86	...	121 29 28·8	R
16	9·2	6 44·45	...	29 29·4	R
189		7 *Geminorum η*			
Feb. 20	...	6 7 9·01	4	67 27 31·4	R
21	...	7 9·16	...	27 31·8	R
23	...	7 8·92	...	27 31·6	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
190		*Anon.*			
Feb. 19	9·2	6 7 32·96	...	151 18 31·9	R
191		*Anon.*			
Feb. 24	...	6 7 58·74	5	137 6 32·3	R
192		*Anon.*			
Jan. 31	9·3	6 9 42·06	...	131 50 58·8	M
193		*Anon.*			
Jan. 16	7·0	6 11 8·63	4	149 53 59·2	M
194		*Anon.*			
Feb. 21	9·0	6 11 47·33	5	152 1 59·3	R
195		*Lalande* 12053.			
Feb. 17	8·0	6 12 52·81	...	68 51 26·2	R
196		*Lalande* 12075.			
Feb. 3	8·0	6 13 42·61	4	68 44 44·8	M
5	8·0	13 42·62	5	44 45·0	M
197		*Lalande* 12094.			
Feb. 1	8·6	6 14 3·63	...	68 42 10·4	M
13	9·0	14 3·84	...	42 8·5	R
16	9·0	14 4·02	6	42 9·7	R
19	8·2	14 3·56	5	42 11·6	R
198		13 *Geminorum* μ			
Jan. 27	...	6 15 13·02	...	67 25 25·6	M
Dec. 30	...	15 12·96	...	25 24·7	M
199		*Taylor* 2474.			
Jan. 12	6·2	6 18 26·95	5	121 43 33·0	M
200		*Anon.*			
Jan. 18	9·0	6 18 37·65	...	151 28 40·4	M
Feb. 9	9·0	18 37·96	...	28 40·7	R
201		*Taylor* 2485.			
Feb. 10	8·5	6 18 38·25	...	151 16 21·3	R
202		*Anon.*			
Feb. 12	9·5	6 20 9·49	...	65 40 9·0	R
203		*a Argûs, Canopus.*			
Feb. 17	...	6 21 6·56	5	142 37 37·4	R
19	...	21 6·72	...	37 37·0	R
20	...	21 6·75	...	37 35·9	R
204		*Anon.*			
Feb. 13	7·8	6 21 34·91	...	128 51 46·1	R
205		*Anon.*			
Feb. 15	9·5	6 22 12·46	...	129 36 44·2	R
206		*Lacaille* 2321.			
Feb. 6	7·6	6 23 32·87	...	153 20 6·0	M
207		*Taylor* 2524.			
Jan. 31	7·9	6 23 42·81	6	131 3 21·0	M
Feb. 8	8·0	23 42·73	...	3 20·8	R
208		*Anon.*			
Feb. 9	9·2	6 27 34·93	...	152 28 11·3	R
209		*Anon.*			
Feb. 12	9·2	6 27 44·50	...	128 46 18·6	R
210		*Anon.*			
Feb. 18	9·5	6 28 0·84	...	131 5 38·1	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
211		*Anon.*			
Jan. 9	9·0	6 28 39·73	...	130 56 9·9	R
Feb. 15	9·3	28 39·53	...	56 7·5	R
212		*Anon.*			
Jan. 19	6·6	6 28 40·56	...	122 7 50·5	M
213		24 *Geminorum* γ			
Jan. 29	...	6 30 19·26	...	78 29 39·4	M
Feb. 1	...	30 19·03	...	29 40·0	M
2	...	30 19·07	...	29 39·6	M
7	...	30 19·07	...	29 39·4	M
29	...	30 19·04	...	29 39·2	R
214		*Anon.*			
Jan. 9	8·0	6 30 57·68	5	131 55 34·8	R
18	8·0	30 57·38	...	55 33·3	M
215		*Anon.*			
Feb. 10	9·3	6 31 18·96	...	122 7 6·2	R
16	9·5	31 18·96	...	7 7·0	R
216		*Anon.*			
Feb. 17	9·0	6 31 37·83	...	140 0 35·1	R
217		*Anon.*			
Feb. 19	8·0	6 31 42·25	5	130 57 7·7	R
20	8·2	31 42·30	...	57 5·5	R
218		*Anon.*			
Feb. 14	9·8	6 33 37·54	5	152 27 29·2	R
21	9·0	33 37·78	...	27 28·1	R
219		*Anon.*			
Jan. 31	8·7	6 34 9·36	...	130 54 42·0	M
Feb. 6	8·8	34 9·29	...	54 43·8	M
220		*Lacaille* 2406.			
Feb. 8	7·0	6 34 18·59	...	147 25 55·7	R
22	8·0	34 18·51	...	25 55·2	R
221		27 *Geminorum* ε			
Jan. 23	...	6 36 3·43	...	64 44 42·8	M
Feb. 23	...	36 3·30	...	44 43·4	R
24	...	36 3·34	...	44 43·9	R
222		*Anon.*			
Feb. 12	10·2	6 36 27·03	5	62 6 18·3	R
13	10·2	36 26·71	...	6 14·3	R
223		*Taylor* 2652.			
Jan. 19	6·9	6 36 38·12	5	151 25 16·4	M
224		*Anon.*			
Feb. 15	9·8	6 37 41·64	...	153 25 58·0	R
Mar. 1	9·5	37 41·93	5	25 59·8	R
225		*Anon.*			
Mar. 4	10·0	6 37 56·74	...	153 21 4·3	R
226		*Lacaille* 2451.			
Feb. 9	8·7	6 38 12·05	...	155 58 9·5	R
227		51 *Cephei.*			
Jan. 6	...	6 39 44·15	7	2 45 44·9	R
15	...	39 45·23	2	45 45·1	M
17	...	39 44·53	3	45 44·4	M
25	...	39 44·26	2	45 44·3	M
228		*Anon.*			
Feb. 16	9·3	6 40 32·34	...	154 14 0·2	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
229		*Anon.*			
Feb. 19	9·0	6 40 36·99	4	151 59 21·0	R
29	9·8	40 37·21	5	59 19·2	R
230		*W. B. N.* VI. 1272.			
Feb. 7	9·0	6 42 37·44	...	70 39 46·1	M
231		*Anon.*			
Feb. 15	10·0	6 43 21·37	4	130 38 43·7	R
17	10·4	43 21·60	4	38 43·0	R
232		*Anon.*			
Feb. 8	9·8	6 45 19·08	...	106 33 16·1	R
233		*Anon.*			
Feb. 9	10·5	6 50 52·93	3	75 18 0·5	R
10	10·5	50 52·76	4	18 4·7	R
234		*Anon.*			
Feb. 19	9·5	6 52 51·86	...	152 54 58·5	R
235		21 *Canis Majoris* e			
Jan. 20	...	6 53 35·60	...	118 47 58·1	M
22	...	53 35·78	...	47 59·1	M
26	...	53 35·75	...	47 54·2	M
Feb. 8	...	53 35·80	...	47 59·3	R
14	...	53 35·61	...	47 59·3	R
Mar. 2	...	53 35·72	...	47 59·7	R
236		ζ^2 *Geminorum, Var.* 1.			
Feb. 22	...	6 56 30·81	4	69 15 41·4	R
237		*Anon.*			
Feb. 28	9·3	6 56 37·30	...	129 18 0·6	R
238		*Taylor* 2825.			
Feb. 21	8·8	6 56 58·21	6	150 55 18·9	R
29	9·0	56 58·02	...	55 18·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
239		*Anon.*			
Feb. 17	9·0	6 57 32·43	5	69 5 32·7	R
Mar. 1	9·0	57 32·20	...	5 31·9	R
240		23 *Canis Majoris* γ			
Jan. 20	...	6 57 58·01	...	105 26 45·3	M
Feb. 7	...	57 57·85	6	26 46·7	M
241		*Lalande* 13707.			
Jan. 9	8·8	6 58 35·30	...	67 7 21·6	R
Feb. 15	8·0	58 35·05	...	7 19·5	R
242		*Anon.*			
Feb. 13	9·5	6 58 52·17	...	66 56 45·7	R
Mar. 2	9·2	58 52·27	4	56 45·0	R
243		*W. B. N.* VI. 1762.			
Mar. 4	9·2	6 58 54·11	...	70 55 31·3	R
244		*R Geminorum, Var.* 2.			
Feb. 15	8·0	6 59 38·98	4	67 6 5·3	R
16	8·2	59 38·73	6	6 6·2	R
245		*Anon.*			
Mar. 5	8·0	7 0 4·32	...	129 43 46·2	R
246		*Anon.*			
Feb. 19	9·3	7 1 2·30	5	60 50 48·8	R
247		*Anon.*			
Mar. 21	7·5	7 1 11·81	...	140 10 47·9	M
248		*Anon.*			
Feb. 23	9·3	7 1 41·44	...	61 4 51·6	R
249		*Anon.*			
Feb. 12	9·0	7 1 45·66	...	129 39 58·2	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
250		*Anon.*			
Feb. 29	9·0	7 3 6·13	5	141 24 47·6	R
251		*Anon.*			
Mar. 1	9·3	7 5 6·33	...	153 52 54·4	R
2	9·5	5 6·28	5	52 53·5	R
252		*Taylor* 2923.			
Jan. 10	8·5	7 7 22·90	...	150 22 4·6	R
253		*Lalande* 14177.			
Feb. 12	7·0	7 11 44·75	5	67 44 41·5	R
22	7·0	11 44·62	4	44 37·5	R
254		55 *Geminorum* δ			
Jan. 26	...	7 12 28·60	...	67 47 5·3	M
27	...	12 28·62	...	47 3·9	M
29	...	12 28·60	...	47 4·7	M
30	...	12 28·60	...	47 4·4	M
Feb. 2	...	12 28·61	...	47 4·1	M
9	...	12 28·09	...	47 2·7	R
10	...	12 28·59	...	47 5·5	R
12	...	12 28·61	5	47 5·0	R
14	...	12 28·68	...	47 5·1	R
15	...	12 28·60	...	47 4·1	R
22	...	12 28·59	5	47 2·4	R
28	...	12 28·66	...	47 5·7	R
Mar. 2	...	12 28·61	...	47 2·4	R
4	...	12 28·66	...	47 4·6	R
255		*Anon.*			
Feb. 21	9·0	7 14 48·88	...	138 50 27·8	R
256		*Taylor* 3005.			
Feb. 23	8·2	7 15 36·65	...	149 1 48·6	R
257		*Lalande* 14397.			
Jan. 31	7·8	7 19 18·22	...	41 49 16·6	M
Feb. 1	7·7	19 18·48	...	49 17·6	M
3	7·7	19 18·88	4	49 17·5	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
258		*Anon.*			
Mar. 4	10·3	7 19 14·93	5	69 16 25·4	R
259		6 *Canis Minoris.*			
Mar. 21	5·7	7 22 40·32	...	77 43 52·0	M
260		*Bonn* +48°. 1546.			
Mar. 1	9·8	7 24 8·70	5	42 1 44·3	R
2	10·2	24 8·78	4	1 47·1	R
261		*Anon.*			
Mar. 5	9·8	7 25 0·15	6	130 10 30·3	R
262		*Anon.*			
Feb. 5	8·0	7 25 16·56	...	123 9 16·7	M
Mar. 7	9·3	25 16·32	...	9 17·9	R
11	9·0	25 16·54	...	9 20·5	M
263		*R. P. L.* 45—*s.p.*			
Sep. 6	...	7 25 18·67	2	0 59 58·2	M
264		*Anon.*			
Feb. 2	8·3	7 25 43·17	...	129 19 4·3	M
265		*Anon.*			
Feb. 23	7·7	7 26 16·91	...	142 6 54·2	R
266		66 *Geminorum* a^2, *Castor.*			
Jan. 26	...	7 26 25·88	...	57 50 1·7	M
27	...	26 25·77	...	50 1·2	M
30	...	26 25·86	...	50 0·2	M
Feb. 12	...	26 25·92	...	50 1·8	R
13	...	26 25·86	...	50 1·4	R
15	...	26 25·88	6	50 0·8	R
16	...	26 25·91	...	50 0·9	R
17	...	26 25·86	...	50 1·6	R
19	...	26 25·81	...	50 2·0	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
267		*69 Geminorum v*			
Jan. 23	...	7 28 2·06	...	62 40 21·2	M
24	...	28 1·93	...	40 22·7	M
268		*Anon.*			
Feb. 22	10·2	7 30 41·94	2	158 43 16·9	R
Mar. 4	10·5	30 41·72	3	43 21·8	R
269		*Anon.*			
Mar. 16	8·0	7 30 53·13	...	121 55 28·4	M
270		*Taylor* 3133.			
Jan. 29	6·7	6 31 27·86	...	62 29 23·7	M
Mar. 12	6·0	31 27·61	6	29 24·3	M
271		*74 Geminorum f*			
Feb. 14	7·0	7 32 5·08	...	72 2 11·9	R
Mar. 21	6·0	32 5·04	...	2 10·7	M
272		*Anon.*			
Feb. 1	9·0	7 32 10·63	...	129 44 58·1	M
273		*10 Canis Minoris a, Procyon.*			
Jan. 26	...	7 32 36·05	...	84 26 57·2	M
27	...	32 36·04	...	26 56·2	M
30	...	32 36·05	...	26 55·7	M
Feb. 13	...	32 36·05	...	26 57·8	R
17	...	32 35·99	...	26 57·8	R
21	...	32 36·04	...	26 58·1	R
274		*Anon.*			
Jan. 31	7·6	7 32 35·92	...	129 54 19·6	M
Mar. 9	7·6	32 36·24	6	54 20·1	M
275		*Lacaille* 2893.			
Mar. 5	7·7	7 33 1·76	...	121 50 30·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
276		*Anon.*			
Feb. 3	7·9	7 35 39·71	...	144 20 46·6	M
Mar. 8	8·8	35 40·07	...	20 47·9	R
277		*Taylor* 3195.			
Feb. 29	8·7	7 36 40·14	...	150 20 11·2	R
278		*77 Geminorum κ*			
Jan. 23	...	7 36 43·15	...	65 17 51·0	M
279		*Anon.*			
Feb. 2	7·8	7 37 3·47	6	130 52 2·3	M
280		*78 Geminorum β, Pollux.*			
Jan. 30	...	7 37 28·91	...	61 40 2·3	M
Feb. 6	...	37 28·79	...	40 2·6	M
17	...	37 28·89	...	40 2·8	R
20	...	37 28·86	5	40 2·7	R
28	...	37 28·79	...	40 2·2	R
Mar. 1	...	37 28·73	...	40 2·1	R
2	...	37 28·82	...	40 1·2	R
281		*Anon.*			
Mar. 11	8·0	7 38 3·37	...	128 53 59·2	M
282		*Anon.*			
Mar. 5	9·0	7 41 24·01	...	151 35 39·7	R
21	8·1	41 24·05	5	35 39·4	M
283		*Anon.*			
Mar. 8	8·7	7 41 43·38	...	144 19 50·1	R
13	8·5	41 43·46	...	19 49·5	M
284		*Anon.*			
Mar. 4	9·0	7 42 9·45	5	153 5 30·4	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
285		*Lacaille* 3013.			
Feb. 1	7·6	7 43 41·10	...	142 1 55·2	M
Mar. 12	7·5	43 41·48	...	1 53·8	M
286		*Lacaille* 3034.			
Mar. 22	8·0	7 44 9·45	5	153 52 49·7	M
287		*Anon.*			
Feb. 28	...	7 45 28·61	6	129 26 5·5	R
288		*Anon.*			
Feb. 29	8·7	7 45 37·23	...	129 28 5·1	R
Mar. 1	8·9	45 37·19	...	28 5·5	R
289		*Anon.*			
Feb. 2	7·6	7 46 19·40	5	132 31 16·8	M
23	7·8	46 19·54	...	31 16·9	R
290		*Anon.*			
Jan. 31	8·7	7 46 40·93	...	144 23 40·1	M
291		*Anon.*			
Mar. 5	9·7	7 48 57·17	...	67 47 20·2	R
7	9·6	48 57·14	...	47 23·7	R
292		*Anon.*			
Mar. 4	9·0	7 48 59·33	6	129 56 4·2	R
293		*Anon.*			
Feb. 6	7·2	7 49 35·63	5	152 36 9·4	M
294		*Anon.*			
Mar. 11	8·7	7 49 58·62	...	130 31 23·6	M
295		*Taylor* 3339.			
Mar. 8	8·0	7 52 1·57	...	144 18 11·5	R
16	7·8	52 1·72	...	18 12·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
296		*Anon.*			
Feb. 3	8·3	7 52 9·85	6	148 23 39·8	M
297		*Anon.*			
Mar. 18	8·4	7 52 34·90	5	151 31 57·5	M
298		6 *Cancri.*			
Feb. 1	...	7 55 39·07	...	61 50 58·7	M
2	...	55 39·44	...	50 57·4	M
9	...	55 39·18	...	50 57·4	R
10	...	55 39·29	...	50 58·4	R
16	...	55 39·20	...	50 58·0	R
21	...	55 39·08	...	50 57·7	R
22	...	55 39·26	...	50 58·3	R
23	...	55 39·18	...	50 58·5	R
Mar. 1	...	55 39·12	...	50 57·4	R
4	...	55 39·23	...	50 56·8	R
5	...	55 39·26	...	50 56·5	R
6	...	55 39·19	...	50 58·6	R
14	...	55 39·24	...	50 57·7	M
299		*Taylor* 3380.			
Feb. 29	8·0	7 55 59·52	...	144 11 55·2	R
Mar. 9	8·0	55 59·60	...	11 52·7	M
12	8·0	55 59·81	...	11 53·5	M
300		*Anon.*			
Mar. 19	9·4	7 56 48·32	...	129 22 37·5	M
301		12 *Cancri.*			
Feb. 7	6·3	8 1 33·14	...	75 59 20·1	M
Mar. 11	6·3	1 33·12	...	59 20·1	M
21	6·1	1 33·05	...	59 19·4	M
302		*W. B. N.* VII. 1684.			
Mar. 8	9·0	8 1 52·02	...	69 30 36·6	R
13	9·0	1 51·90	...	30 35·5	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
303		15 *Argûs.*			
Jan. 31	...	8 2 5·47	...	113 56 13·1	M
Feb. 2	...	2 5·31	...	56 13·1	M
5	...	2 5·45	4	56 14·2	M
12	...	2 5·68	...	56 13·9	R
20	...	2 5·61	...	56 14·7	R
21	...	2 5·72	...	56 12·9	R
22	...	2 5·58	...	56 14·3	R
28	...	2 5·65	...	56 13·6	R
Mar. 14	...	2 5·45	...	56 12·6	M
15	...	2 5·48	...	56 13·1	M
16	...	2 5·43	...	56 12·4	M
23	...	2 5·68	...	56 12·5	M
304		14 *Cancri* ψ^2			
Mar. 20	4·5	8 2 44·15	4	64 6 24·6	M
305		*Anon.*			
Feb. 1	8·3	8 5 35·88	...	130 46 46·4	M
306		*Anon.*			
Mar. 1	9·8	8 5 46·79	...	77 38 57·1	R
307		*Anon.*			
Feb. 3	9·1	8 5 53·02	6	77 26 22·0	M
308		*Anon.*			
Feb. 29	9·3	8 5 54·40	...	128 40 11·4	R
309		*Anon.*			
Mar. 12	9·4	8 9 34·21	...	77 28 55·5	M
310		*Anon.*			
Mar. 22	9·8	8 10 14·34	...	150 48 9·1	M
311		*W. B. N.* VIII. 178.			
Mar. 16	9·4	8 10 22·70	...	74 17 39·8	M
312		*Anon.*			
Feb. 6	9·0	8 11 29·91	...	152 5 58·0	M
313		*Bonn* +28°. 1585—2*nd*.			
Mar. 5	9·5	8 12 13·56	...	61 7 51·7	R
6	9·5	12 13·36	...	7 52·5	R
314		19 *Cancri* λ			
Mar. 21	6·0	8 12 55·23	...	65 34 35·9	M
315		*Anon.*			
Mar. 13	8·8	8 12 59·06	5	130 29 48·1	M
14	9·0	12 58·92	4	29 50·0	M
23	8·8	12 58·98	5	29 49·4	M
316		*Anon.*			
Mar. 11	9·0	8 12 59·05	...	130 86 44·1	M
19	8·8	12 59·07	5	86 43·5	M
317		*Anon.*			
Mar. 20	9·7	8 18 55·29	...	151 2 14·5	M
318		*Taylor* 3599.			
Feb. 2	7·0	8 20 28·91	...	144 54 18·5	M
319		*Anon.*			
Feb. 29	8·4	8 21 11·41	...	153 19 39·9	R
Mar. 1	8·2	21 11·42	5	19 40·2	R
7	8·7	21 11·14	...	19 41·4	R
320		*Taylor* 3607.			
Feb. 3	6·0	8 21 27·39	6	144 56 57·1	M
321		*Anon.*			
Feb. 7	8·2	8 21 47·15	...	131 43 8·7	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
322		*Taylor* 3620.			
Feb. 6	7·8	8 23 27·87	...	130 49 18·8	M
323		*Anon.*			
Feb. 21	7·8	8 23 32·29	5	144 56 29·9	R
324		31 *Cancri* θ			
Mar. 9	6·0	8 24 17·71	...	71 28 30·4	M
14	6·0	24 17·37	...	28 30·4	M
21	6·0	24 17·79	...	28 29·7	M
325		33 *Cancri* η			
Jan. 24	...	8 25 18·20	...	69 7 35·5	M
25	...	25 18·18	...	7 34·1	M
31	...	25 18·32	...	7 33·4	M
Feb. 1	...	25 18·26	...	7 34·0	M
5	...	25 18·28	...	7 33·9	M
12	...	25 18·13	...	7 35·0	R
19	...	25 18·28	...	7 33·2	R
20	...	25 18·20	...	7 34·1	R
Mar. 6	...	25 18·23	...	7 33·2	R
8	...	25 18·28	...	7 33·4	R
15	...	25 18·26	...	7 33·6	M
16	...	25 18·27	...	7 32·5	M
18	...	25 18·30	...	7 34·8	M
22	...	25 18·22	...	7 34·0	M
326		*Taylor* 3652.			
Mar. 11	8·0	8 26 1·17	...	130 4 14·5	M
327		*Lacaille* 3393.			
Mar. 12	7·9	8 26 6·79	...	149 41 45·4	M
328		*Anon.*			
Mar. 23	8·0	8 26 18·89	6	144 59 22·4	M
329		*Anon.*			
Mar. 13	9·1	8 26 42·68	...	130 32 4·9	M
330		*W. B. N.* VIII. 699.			
Mar. 1	8·0	8 29 58·57	...	70 41 16·7	R
331		*Anon.*			
Feb. 7	9·3	8 31 30·03	5	129 47 5·1	M
332		43 *Cancri* γ			
Jan. 24	4·9	8 35 52·51	...	68 4 23·6	M
333		45 *Cancri* A^1			
Mar. 14	6·0	8 36 8·90	...	76 51 43·7	M
15	6·0	36 9·00	...	51 43·1	M
334		*S Cancri Var.* 2.			
Mar. 16	8·0	8 36 37·27	...	70 30 26·3	M
18	8·0	36 37·44	...	30 27·3	M
335		*Anon.*			
Mar. 8	9·0	8 37 32·12	5	136 10 18·7	R
336		*Anon.*			
Mar. 8	7·8	8 38 6·43	4	136 7 16·3	R
337		*W. B. E.* VIII. 991.			
Mar. 11	9·3	8 39 17·12	...	81 43 55·1	M
338		50 *Cancri* A^2			
Mar. 12	6·2	8 39 55·01	...	77 25 20·0	M
13	6·0	39 54·96	...	25 19·9	M
19	6·0	39 55·04	...	25 18·2	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
339		11 *Hydræ* ϵ			
Jan. 31	...	8 39 59·79	...	83 6 48·1	M
Feb. 12	...	39 59·71	...	6 48·6	R
13	...	39 59·75	...	6 48·8	R
19	...	39 59·75	...	6 48·5	R
23	...	39 59·60	...	6 48·4	R
24	...	39 59·78	...	6 50·7	R
26	...	39 59·75	...	6 49·5	R
29	...	39 59·69	...	6 47·7	R
Mar. 1	...	39 59·79	...	6 48·6	R
5	...	39 59·75	...	6 48·7	R
6	...	39 59·76	...	6 48·3	R
7	...	39 59·71	...	6 49·0	R
21	...	39 59·79	...	6 46·6	M
340		*Anon.*			
Mar. 20	7·9	8 41 13·45	...	147 18 27·6	M
341		*Lacaille* 3534.			
Mar. 22	7·9	8 42 35·07	...	129 19 51·4	M
23	7·9	42 35·28	...	19 51·2	M
342		*f Velorum.*			
Feb. 2	6·9	8 46 12·97	...	136 3 6·2	M
7	7·0	46 13·17	...	3 7·8	M
343		*Anon.*			
Mar. 9	8·1	8 47 12·22	6	136 7 50·7	M
14	8·9	47 12·15	...	7 50·3	M
344		*Anon.*			
Mar. 13	9·3	8 47 50·00	5	69 38 59·1	M
15	9·3	47 49·92	...	38 58·3	M
345		*R. P. L.* 60.			
Feb. 13	...	8 48 18·80	3	5 18 41·4	R
21	...	48 13·94	3	18 41·1	R
Mar. 5	...	48 13·28	3	18 41·1	R
12	...	48 13·54	3	18 41·0	M
Apl. 4	...	48 14·13	2	18 39·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
346		*Anon.*			
Apl. 1	9·6	8 48 25·61	6	136 26 59·4	M
347		*Taylor* 3886.			
Feb. 5	7·9	8 48 30·14	...	136 54 41·8	M
348		*Anon.*			
Feb. 28	8·5	8 49 1·92	...	133 2 56·4	R
349		*Anon.*			
Mar. 8	9·0	8 49 25·67	...	133 29 16·1	R
11	9·0	49 25·72	4	29 18·1	M
350		*W. B. E.* VIII. 1302.			
Mar. 7	9·3	8 51 12·62	...	98 55 37·0	R
351		*Anon.*			
Mar. 6	9·7	8 51 22·12	...	98 36 57·6	R
352		65 *Canceri* α			
Jan. 27	...	8 51 29·11	...	77 38 54·8	M
Feb. 3	...	51 28·91	...	38 54·8	M
24	4·6	51 29·06	...	38 55·3	R
353		*Anon.*			
Mar. 20	9·5	8 51 34·11	5	147 16 28·0	M
354		*Anon.*			
Mar. 23	9·5	8 54 24·38	5	142 48 0·2	M
355		69 *Canceri* υ			
Feb. 22	...	8 55 15·18	...	65 2 48·4	R
Mar. 19	6·0	55 15·30	...	2 41·7	M
356		*Anon.*			
Mar. 22	8·8	8 57 7·46	...	146 36 28·5	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
357		*77 Canori ξ*			
Jan. 25	...	9 1 59·71	...	67 26 18·9	M
358		*Anon.*			
Mar. 8	9·0	9 6 47·67	...	138 43 27·4	R
359		*Anon.*			
Mar. 2	10·0	9 7 52·31	5	124 49 8·2	R
4	10·2	7 52·21	6	49 7·9	R
360		*82 Canori π²*			
Jan. 27	7·2	9 8 9·61	...	74 31 45·3	M
Feb. 24	6·0	8 9·71	...	31 47·4	R
26	6·5	8 9·64	...	31 47·8	R
28	...	8 9·95	...	31 46·3	R
361		*Lalande* 18251.			
Mar. 19	8·0	9 8 48·82	5	74 27 36·6	M
362		*Anon.*			
Mar. 15	9·0	9 9 29·76	5	150 33 44·8	M
16	9·0	9 29·85	...	33 45·7	M
363		*Lacaille* 3761.			
Mar. 18	7·0	9 9 41·97	6	150 23 24·3	M
364		*83 Canori.*			
Feb. 3	...	9 11 50·24	...	71 45 12·9	M
5	...	11 50·01	...	45 14·2	M
6	...	11 50·06	...	45 14·3	M
7	...	11 50·14	...	45 13·5	M
Mar. 5	...	11 49·98	...	45 13·4	R
11	...	11 50·15	...	45 14·5	M
Apl. 4	...	11 50·10	...	45 12·9	M
5	...	11 50·10	...	45 12·6	M
6	...	11 50·11	...	45 10·8	M
365		*Anon.*			
Feb. 17	10·4	9 13 22·97	4	70 34 11·7	R
366		*ι Argûs.*			
Feb. 9	...	9 13 39·82	...	148 44 22·4	R
367		*Anon.*			
Mar. 14	8·0	9 15 30·35	...	143 50 43·2	M
368		*Anon.*			
Apl. 5	8·9	9 15 55·58	4	124 48 52·8	M
369		*Anon.*			
Mar. 23	9·5	9 16 51·29	5	124 49 34·7	M
Apl. 1	9·3	16 51·27	...	49 34·9	M
370		*Anon.*			
Feb. 20	7·7	9 19 23·28	5	70 23 20·1	R
Mar. 21	7·8	19 23·03	...	23 19·9	M
371		*Anon.*			
Feb. 26	9·5	9 19 33·23	5	150 32 39·9	R
372		*Anon.*			
Mar. 22	7·3	9 19 55·56	...	75 8 32·9	M
373		*Anon.*			
Mar. 2	8·8	9 20 3·59	5	125 23 13·7	R
374		*Anon.*			
Mar. 2	7·8	9 20 47·14	5	125 25 0·6	R
375		*30 Hydræ α, Var.* 2			
Feb. 3	...	9 21 17·88	...	98 6 18·6	M
5	...	21 17·83	...	6 18·4	M
6	...	21 17·85	...	6 18·7	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
Feb. 7	...	9 21 17·89	...	98 6 18·2	M
23	...	21 17·78	...	6 20·5	R
24	...	21 17·82	...	6 20·6	R
29	...	21 17·85	...	6 18·6	R
Mar. 4	...	21 17·72	...	6 19·2	R
7	...	21 17·86	...	6 19·2	R
13	...	21 17·85	...	6 18·2	M
376		*Lalande* 18636.			
Mar. 16	8·7	9 22 8·43	6	68 31 42·4	M
377		*Lalande* 18659.			
Apl. 3	8·2	9 23 4·79	5	67 51 31·9	M
378		*Anon.*			
Apl. 6	7·2	9 23 7·57	6	67 37 35·5	M
379		*Lalande* 18683.			
Apl. 8	9·3	9 23 44·84	...	68 8 53·7	R
380		*Anon.*			
Apl. 9	9·5	9 24 27·76	5	158 42 50·9	R
381		*Anon.*			
Mar. 25	9·0	9 24 51·59	...	130 28 14·1	M
382		*Lacaille* 3887.			
Mar. 15	7·9	9 25 11·78	4	140 2 37·2	M
383		*Anon.*			
Mar. 14	9·0	9 28 31·17	...	146 34 4·6	M
384		*Anon.*			
Jan. 27	8·3	9 28 43·19	...	144 1 47·0	M
Feb. 16	9·8	28 43·22	6	1 49·7	R
385		*Anon.*			
Mar. 20	9·3	9 29 47·10	...	146 35 41·9	M
386		10 *Leonis.*			
Mar. 21	5·7	9 30 26·90	5	82 35 30·6	M
387		*R. P. L.* 69.			
Feb. 6	...	9 35 26·70	2	2 48 56·4	M
Mar. 16	...	35 26·54	1	48 56·7	M
388		*Anon.*			
Mar. 23	8·0	9 35 46·69	5	151 58 30·3	M
389		16 *Leonis* ψ			
Mar. 19	...	9 36 45·60	...	75 23 38·6	M
Apl. 5	6·0	36 45·52	...	23 38·9	M
390		*Anon.*			
Feb. 21	9·8	9 37 2·33	...	151 55 59·7	R
23	9·8	37 2·25	5	56 1·0	R
Mar. 30	...	37 2·24	5	56 0·5	R
391		*Anon.*			
Feb. 26	7·0	9 37 9·39	5	148 27 34·9	R
Mar. 18	7·6	37 9·26	...	27 33·9	M
392		*Anon.*			
Mar. 9	8·0	9 37 19·59	6	148 33 26·8	M
22	8·0	37 19·25	...	33 28·2	M
393		17 *Leonis* ϵ			
Feb. 3	...	9 38 34·90	...	65 38 15·1	M
16	...	38 34·85	...	38 14·9	M
Mar. 12	...	38 34·73	...	38 15·8	M
Apl. 4	...	38 34·95	4	38 12·9	M
8	...	38 34·89	...	38 14·8	R
13	...	38 34·87	...	38 15·3	R
394		*Bonn* +7°.2181.			
Feb. 19	5·7	9 39 24·63	...	82 42 7·2	R
24	6·5	39 24·66	...	42 8·3	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
395		18 *Leonis.*			
Apl. 9	...	9 39 29·37	...	77 36 5·4	R
10	...	39 29·44	...	36 5·4	R
15	6·0	39 29·52	4	36 4·9	R
396		*Anon.*			
Jan. 27	8·0	9 39 53·81	...	148 35 54·7	M
Apl. 3	7·9	39 53·75	5	35 53·7	M
397		*l Carinæ, Var.* 1.			
Feb. 28	...	9 41 43·84	...	151 55 6·9	R
Mar. 25	5·7	41 43·87	5	55 8·7	M
398		*Taylor* 4337.			
Mar. 21	7·0	9 42 6·16	...	148 27 29·8	M
399		*Anon.*			
Apl. 20	8·0	9 42 9·27	...	130 51 33·4	R
400		*Anon.*			
Apl. 11	8·5	9 43 1·57	5	130 50 3·6	R
401		*Lalande* 19286.			
Feb. 22	8·0	9 43 39·68	...	89 18 2·8	R
Apl. 1	9·4	43 39·62	...	18 0·4	M
402		*Anon.*			
Apl. 6	8·2	9 43 50·63	4	133 48 7·9	M
403		*Anon.*			
Mar. 2	9·0	9 46 15·89	...	129 5 7·8	R
404		*Anon.*			
Apl. 9	10·2	9 47 33·56	6	75 35 44·2	R
10	10·0	47 33·71	...	35 43·1	R
405		*Anon.*			
Mar. 6	9·7	9 48 47·88	...	152 9 55·1	R
Apl. 16	9·8	48 47·66	...	9 55·7	R
406		*Anon.*			
Apl. 8	9·8	9 52 42·36	4	72 3 56·5	R
407		*Anon.*			
Feb. 29	9·0	9 53 2·37	5	129 42 57·1	R
408		22 *Leonis* π			
Feb. 8	...	9 53 26·71	6	81 20 35·3	R
24	...	53 26·80	...	20 37·1	R
Mar. 1	...	53 26·98	...	20 34·0	R
2	...	53 26·89	...	20 34·7	R
4	...	53 26·96	...	20 34·3	R
7	...	53 26·94	...	20 33·7	R
8	...	53 26·88	...	20 33·7	R
9	...	53 26·91	...	20 35·0	M
11	...	53 26·98	...	20 34·5	M
12	...	53 27·18	...	20 34·3	M
21	...	53 26·93	...	20 33·9	M
22	...	53 26·92	...	20 35·1	M
25	...	53 26·93	...	20 33·8	M
Apl. 15	...	53 26·96	...	20 36·6	R
20	...	53 26·94	...	20 34·0	R
409		*Anon.*			
Apl. 9	10·2	9 55 34·12	...	72 20 17·0	R
410		*Taylor* 4444.			
Feb. 22	...	9 55 40·58	5	67 26 5·8	R
23	...	55 40·53	...	26 6·5	R
411		*Anon.*			
Apl. 10	10·3	9 56 18·80	5	129 59 42·9	R
412		*Anon.*			
Apl. 3	8·0	9 56 43·15	...	144 6 9·8	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
413	*W. B. N.* IX. 1189.				
Apl. 11	9·7	9 56 53·66	...	73 9 58·9	R
414	*Anon.*				
Feb. 26	9·0	9 58 4·63	5	145 35 20·9	R
Mar. 13	9·0	58 4·56	...	35 21·0	M
415	*Taylor* 4476.				
Mar. 6	7·8	9 58 7·87	5	145 38 22·1	R
416	*W. B. N.* IX. 1230.				
Apl. 18	...	9 58 18·87	...	72 54 49·7	R
417	*Anon.*				
Apl. 4	9·0	9 58 26·35	6	143 56 28·6	M
418	*Anon.*				
Mar. 15	8·8	9 58 41·19	4	150 41 18·6	M
419	*Anon.*				
Apl. 6	9·1	9 59 47·87	...	86 32 38·1	M
16	9·5	59 47·61	...	32 40·9	R
420	*Anon.*				
Apl. 13	10·0	10 0 19·41	...	86 24 36·0	R
421	30 *Leonis* η				
Jan. 26	...	10 0 21·17	4	72 36 52·0	M
27	...	0 21·04	5	36 52·4	M
422	32 *Leonis a, Regulus.*				
Feb. 8	...	10 1 33·20	...	77 24 31·3	R
Mar. 8	...	1 33·23	...	24 29·3	R
11	...	1 33·06	...	24 29·3	M
12	...	1 33·28	...	24 29·3	M
22	...	1 33·12	...	24 30·0	M
26	...	1 33·13	...	24 28·2	M
Mar. 30	...	10 1 33·28	...	77 24 29·7	R
Apl. 1	...	1 33·19	...	24 30·3	M
5	...	1 33·20	...	24 29·5	M
15	...	1 33·19	...	24 32·2	R
20	...	1 33·22	...	24 29·9	R
423	*Anon.*				
Mar. 4	9·0	10 2 21·59	5	129 58 46·5	R
Apl. 9	8·8	2 21·68	5	58 44·8	R
424	*Anon.*				
Mar. 25	9·4	10 2 40·63	6	123 29 43·8	M
425	*Anon.*				
Mar. 4	9·5	10 3 6·79	5	129 59 57·5	R
Apl. 9	9·2	3 6·79	4	59 55·9	R
426	33 *Leonis.*				
Apl. 8	8·0	10 3 47·33	5	73 39 55·6	R
427	*Anon.*				
Mar. 7	9·3	10 4 46·86	6	122 56 21·7	R
Apl. 10	9·0	46·89	...	56 21·9	R
428	*Anon.*				
Apl. 3	9·4	10 4 54·55	5	123 31 12·8	M
429	*Taylor* 4552.				
Mar. 9	7·2	10 7 19·64	6	147 25 46·4	M
430	*Anon.*				
Feb. 26	8·6	10 8 18·22	5	139 58 38·8	R
Mar. 6	7·5	8 18·40	4	58 40·0	R
431	*Anon.*				
Mar. 14	9·0	10 10 8·90	...	145 36 45·6	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
432	*R. P. L.* 72—*s.p.*				
Sep. 8	...	10 10 39·21	8	5 6 8·9	M
11	...	10 39·34	2	6 1·2	M
433	41 *Leonis* γ^1				
Jan. 26	...	10 12 54·77	...	69 30 45·7	M
Mar. 11	...	12 54·72	6	30 44·3	M
12	...	12 54·60	...	30 43·9	M
13	...	12 54·69	...	30 44·4	M
16	...	12 54·73	...	30 44·8	M
18	...	12 54·94	...	30 44·4	M
19	...	12 54·77	...	30 44·8	M
20	...	12 54·77	...	30 44·2	M
Apl. 1	...	12 54·70	...	30 44·1	M
4	...	12 54·72	...	30 44·5	M
5	...	12 54·61	...	30 44·2	M
6	...	12 54·65	...	30 43·3	M
10	...	12 54·70	...	30 43·3	R
11	...	12 54·60	...	30 43·2	R
12	...	12 54·75	...	30 44·2	R
13	...	12 54·74	...	30 44·8	R
15	...	12 54·68	...	30 43·9	R
434	*Anon.*				
Mar. 5	...	10 13 ~~11·90~~ 12·10	...	128 39 19·3	R
435	44 *Leonis.*				
Feb. 24	5·5	10 18 30·38	...	80 33 57·6	R
26	6·0	18 30·40	...	33 55·9	R
436	*Anon.*				
Mar. 2	9·8	10 19 ~~3·27~~ 3·45	5	146 10 54·0	R
437	*Anon.*				
Apl. 8	9·5	10 19 41·59	...	146 11 10·5	R
9	9·8	19 41·47	...	11 8·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
438	*Anon.*				
Mar. 15	9·4	10 20 30·30	...	146 14 14·4	M
16	9·3	20 30·50	5	14 14·4	M
Apl. 10	9·2	20 30·70	5	14 13·6	R
11	10·2	20 30·42	...	14 12·9	R
13	9·8	20 30·45	...	14 13·5	R
439	*Taylor* 4682.				
Feb. 28	7·0	10 21 58·13	...	75 0 13·4	R
440	*Anon.*				
Mar. 5	9·3	10 24 ~~43·49~~ 43·82	4	147 1 21·8	R
441	*Anon.*				
Mar. 6	8·0	10 25 ~~6·69~~ 6·84	...	125 36 20·8	R
442	*Lalande* 20402.				
Mar. 8	8·0	10 25 24·04	...	79 55 13·0	R
443	*Anon.*				
Mar. 18	8·0	10 25 37·67	...	146 53 8·4	M
19	8·0	25 37·81	...	53 8·6	M
20	8·0	25 37·76	...	53 9·5	M
Apl. 15	8·0	25 37·97	5	53 11·1	R
444	*Anon.*				
Mar. 13	8·0	10 25 58·11	...	146 56 35·6	M
445	47 *Leonis* ρ				
Feb. 26	...	20 26 4·21	...	80 2 9·1	R
Mar. 1	...	26 4·28	...	2 9·6	R
2	...	26 4·28	5	2 8·6	R
9	...	26 4·17	...	2 9·3	M
21	...	26 4·28	...	2 7·9	M
Apl. 1	...	26 4·29	...	2 7·8	M
5	...	26 4·11	...	2 11·1	M
17	...	26 4·18	...	2 9·0	R
19	...	26 4·28	...	2 7·5	R
22	...	26 4·20	...	2 8·1	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h.	m.	s.	No. of Wires.	Mean Polar Distance 1872. °	′	″	Observer.
446		*p Carinæ.*							
Mar. 11	...	10	27	28·~~66~~ 73	...	151	1	37·6	M
447		*Anon.*							
Apl. 20	10·0	10	28	20·17	...	131	44	3·4	R
448		*Anon.*							
Apl. 13	9·5	10	28	22·28	...	150	52	24·7	R
16	9·2		28	22·28	...		52	24·3	R
449		*Anon.*							
Apl. 10	9·8	10	29	30·83	3	147	57	4·9	R
11	9·5		29	30·87	...		57	5·6	R
450		50 *Leonis.*							
Feb. 23	...	10	32	2·55	...	73	12	27·3	R
24	...		32	2·49	...		12	28·0	R
Apl. 15	...		32	2·61	...		12	27·9	R
451		*Anon.*							
Mar. 8	9·2	10	35	42·~~72~~ 84	5	137	22	2·9	R
452		*Anon.*							
Mar. 12	9·4	10	36	49·75	...	150	49	43·0	M
20	9·2		36	49·61	...		49	43·7	M
453		*Anon.*							
Mar. 23	8·9	10	37	47·56	...	151	31	50·5	M
454		36 *Sextantis.*							
Mar. 21	6·0	10	38	33·66	...	86	50	23·7	M
Apl. 12	...		38	33·76	...		50	24·0	R
455		*Taylor* 4850—*2nd.*							
Mar. 6	7·8	10	39	0·~~52~~ 79	...	148	52	37·9	R
25	7·9		39	0·48	...		52	37·0	M
Apl. 4	8·0		39	0·77	...		52	38·3	M
456		*Anon.*							
Apl. 8	9·0	10	39	6·44	4	144	52	51·6	R
457		*Taylor* 4852—1*st.*							
Apl. 9	9·0	12	39	10·44	4	148	54	15·8	R
11	9·0		39	10·39	4		54	15·9	R
15	8·5		39	10·29	4		54	17·6	R
458		*Taylor* 4852—*2nd.*							
Apl. 11	9·2	10	39	12·22	4	148	54	20·3	R
15	8·8		39	12·18	4		54	21·6	R
16	9·0		39	12·02	...		54	20·3	R
459		*Anon.*							
Apl. 13	8·8	10	39	21·54	...	148	36	43·6	R
460		*Brisbane* 3194—*2nd.*							
Mar. 13	8·5	10	39	37·27	6	149	3	58·8	M
461		*Anon.*							
Apl. 22	9·5	10	39	44·78	4	139	4	41·6	R
462		*Anon.*							
Mar. 14	8·0	10	39	47·42	5	148	53	36·9	M
15	8·2		39	47·34	...		53	37·7	M
16	7·8		39	47·35	6		53	36·6	M
463		*η Argûs, Var.* 1.							
Feb. 26	7·0	10	40	5·89	...	149	0	44·7	R
Mar. 1	...		40	5·96	...		0	44·4	R
7	...		40	5·~~79~~ 98	...		0	44·7	R
Apl. 10	6·8		40	6·08	...		0	44·9	R
464		*Taylor* 4872.							
Apl. 20	8·0	10	41	23·07	...	151	16	7·5	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
465		53 *Leonis l*			
Jan. 27	...	10 42 31·78	...	78 46 42·1	M
Feb. 23	...	42 31·71	...	46 42·8	R
24	...	42 31·67	...	46 42·3	R
Mar. 9	...	42 31·65	...	46 42·8	M
18	...	42 31·60	...	46 43·9	M
26	...	42 31·66	...	46 42·5	M
27	...	42 31·71	...	46 41·3	M
Apl. 3	...	42 31·68	...	46 41·3	M
6	...	42 31·61	...	46 39·5	M
17	...	42 31·61	...	46 41·2	R
27	...	42 31·60	...	46 42·5	R
466		*Lacaille* 4502.			
Mar. 11	7·9	10 46 50·60	...	141 7 18·1	M
467		*Anon.*			
Mar. 22	9·2	10 47 18·28	...	141 47 22·6	M
468		*Anon.*			
Apl. 8	8·0	10 48 11·92	...	150 8 4·4	R
469		*Anon.*			
Apl. 16	9·7	10 48 15·74	...	147 44 37·1	R
470		*Anon.*			
Apl. 9	9·2	10 48 20·70	5	129 31 45·9	R
471		*Anon.*			
Mar. 30	9·0	10 48 45·99	...	148 54 8·6	R
Apl. 11	9·5	48 45·96	5	54 7·7	R
472		55 *Leonis.*			
Apl. 12	...	10 49 7·32	...	88 34 54·5	R
26	...	49 7·43	4	34 49·9	R
473		*Anon.*			
Mar. 7	9·0	10 50 36·27	...	144 33 5·0	R
12	9·0	50 36·61	6	33 4·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
474		*Anon.*			
Mar. 20	9·2	10 52 16·03	...	143 48 4·1	M
475		*Anon.*			
Mar. 25	9·0	10 52 39·49	...	143 38 50·7	M
Apl. 13	8·0	52 39·47	...	38 51·4	R
476		*Anon.*			
Mar. 6	8·8	10 53 ~~13·82~~ 14·02	5	139 35 21·2	R
8	9·0	53 13·76 20	...	35 21·2	R
477		58 *Leonis d*			
Mar. 18	...	10 53 57·14	...	85 41 45·0	M
478		61 *Leonis* p^2			
Mar. 13	...	10 55 17·98	...	91 47 46·2	M
15	...	55 17·84	...	47 46·0	M
479		50 *Ursæ Majoris a*			
Apl. 17	...	10 55 48·46	...	27 33 30·3	R
480		*Anon.*			
Mar. 19	8·0	10 55 57·54	...	149 19 20·3	M
Apl. 11	9·0	55 57·54	...	19 22·5	R
481		*Anon.*			
Apl. 20	9·2	10 57 22·39	...	145 38 16·7	R
482		63 *Leonis* χ			
Feb. 26	...	10 58 24·81	...	81 58 21·7	R
Mar. 30	...	58 24·54	...	58 20·1	R
Apl. 8	...	58 24·79	...	58 20·7	R
9	...	58 24·75	...	58 20·4	R
16	...	58 24·76	...	58 20·5	R
18	...	58 24·74	...	58 20·8	R
23	...	58 24·75	...	58 20·3	R
27	...	58 24·77	...	58 19·9	R
May 3	...	58 24·77	...	58 20·3	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
483		65 *Leonis* p^4			
Mar. 14	...	11 0 22·34	...	87 21 4·0	M
484		*Lacaille* 4612.			
Mar. 7	9·0	11 1 13·81	...	154 49 9·7	R
8	9·6	1 13·90	5	49 8·8	R
485		*Anon.*			
Apl. 22	8·0	11 1 22·96	...	135 36 12·1	R
486		*Anon.*			
Apl. 13	8·2	11 2 9·24	...	149 16 19·9	R
487		*Anon.*			
Mar. 16	7·8	11 2 18·07	6	148 58 46·7	M
488		*Lalande* 21367.			
Mar. 11	8·0	11 3 43·98	...	78 8 22·5	M
489		*Lalande* 21371.			
Mar. 12	7·9	11 3 55·74	...	78 0 15·7	M
13	7·8	3 55·61	6	0 16·2	M
490		*Taylor* 5088.			
Mar. 18	7·7	11 5 15·56	...	149 41 25·8	M
491		*Anon.*			
Mar. 20	8·0	11 6 9·41	...	149 1 20·8	M
21	8·0	6 9·52	...	1 21·2	M
492		*Taylor* 5108.			
Apl. 17	...	11 7 6·98	...	149 37 20·9	R
493		69 *Leonis* p^5			
Mar. 27	5·8	11 7 12·25	5	89 22 25·3	M
494		68 *Leonis* δ			
Mar. 25	...	11 7 17·87	...	68 46 32·2	M
26	...	7 17·96	...	46 32·4	M
Apl. 10	...	7 17·88	...	46 31·8	R
11	...	7 17·92	...	46 31·7	R
12	...	7 17·89	...	46 32·4	R
16	...	7 17·92	...	46 31·6	R
18	...	7 17·89	...	46 32·5	R
20	...	7 17·83	...	46 32·5	R
23	...	7 17·94	...	46 31·3	R
495		*Taylor* 6007.			
Mar. 22	6·0	11 7 22·72	...	81 14 22·0	M
23	6·2	7 22·88	...	14 21·2	M
496		*Anon.*			
Apl. 22	8·0	11 7 28·22	5	145 42 52·0	R
497		73 *Leonis n*			
Jan. 27	...	11 9 9·45	4	75 59 40·8	M
498		12 *Crateris* δ			
Mar. 13	...	11 12 56·56	...	104 5 11·9	M
23	...	12 56·49	...	5 10·6	M
25	...	12 56·51	...	5 10·5	M
30	...	12 56·61	...	5 11·2	R
Apl. 1	...	12 56·53	...	5 11·6	M
11	...	12 56·60	...	5 11·0	R
16	...	12 56·56	...	5 10·8	R
19	...	12 56·46	...	5 11·3	R
May 3	...	12 56·56	4	5 11·8	R
8	...	12 56·59	...	5 9·8	M
499		78 *Leonis* ι			
Feb. 24	...	11 17 15·05	...	78 46 0·1	R
Mar. 22	...	17 15·03	...	45 58·9	M
500		79 *Leonis.*			
Mar. 14	6·0	11 17 28·04	...	87 53 24·2	M
27	6·0	17 28·07	...	53 23·8	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
501		*Anon.*			
Apl. 4	9·0	11 21 14·28	...	145 54 25·4	M
16	9·0	21 14·67	5	54 24·0	R
22	8·7	21 14·49	...	54 24·5	R
502		84 *Leonis* τ			
Apl. 17	...	11 21 21·25	5	86 26 21·4	R
503		*Lalande* 21819.			
Mar. 13	7·9	11 21 22·16	...	86 27 52·8	M
16	8·0	21 22·23	...	27 53·4	M
18	8·0	21 22·23	4	27 53·0	M
504		*Lalande* 21833.			
Mar. 18	7·9	11 21 51·62	4	86 30 36·7	M
19	7·7	21 51·38	...	30 35·2	M
Apl. 3	7·7	21 51·32	...	30 37·4	M
505		*Anon.*			
Apl. 15	10·0	11 22 43·04	6	91 58 48·3	R
506		*Anon.*			
Mar. 30	9·1	11 23 10·23	5	145 56 23·4	R
507		*Anon.*			
Apl. 13	9·0	11 25 30·13	5	151 34 8·9	R
508		*Anon.*			
Apl. 13	9·5	11 27 13·69	6	151 33 38·1	R
509		91 *Leonis* υ			
Mar. 19	...	11 30 23·64	...	90 7 1·2	M
20	...	30 23·85	...	7 3·1	M
22	...	30 23·71	...	7 4·1	M
25	...	30 23·69	...	7 2·4	M
30	...	30 23·79	...	7 3·0	R
Apl. 3	...	30 23·75	...	7 2·9	M
6	...	30 23·73	...	7 1·5	M
Apl. 8	...	11 30 23·72	...	90 7 3·0	R
17	...	30 23·72	...	7 0·2	R
18	...	30 23·76	5	7 3·2	R
19	...	30 23·67	...	7 3·0	R
26	...	30 23·67	...	7 1·4	R
27	...	30 23·94	5	7 0·2	R
May. 3	...	30 23·64	5	7 3·0	R
8	...	30 23·69	...	7 2·5	M
9	...	30 23·76	...	7 1·6	M
510		*W. B. E.* XI. 573.			
Mar. 27	8·0	11 33 54·23	...	84 9 3·2	M
May 10	8·0	33 54·20	...	9 3·2	M
13	8·0	33 54·07	4	9 3·3	M
17	8·0	33 54·18	...	9 2·5	M
18	8·0	33 54·39	5	9 3·0	M
21	8·0	33 54·25	...	9 2·2	M
22	8·0	33 54·19	...	9 3·1	M
511		*W. B. E.* XI. 582.			
Apl. 22	8·2	11 34 22·50	...	84 20 17·6	R
512		2 *Virginis* ξ			
Feb. 24	...	11 38 41·16	...	81 1 52·3	R
May 9	...	38 41·18	6	1 49·0	M
513		3 *Virginis* υ			
Mar. 23	5·0	11 39 16·78	...	82 45 13·1	M
514		4 *Virginis* A^1			
Apl. 19	...	11 41 20·27	...	81 2 35·9	R
20	...	41 20·38	...	2 35·6	R
515		94 *Leonis* β, *Deneb.*			
Mar. 13	...	11 42 31·74	...	74 42 44·3	M
16	...	42 31·91	...	42 46·5	M
19	...	42 31·80	...	42 44·5	M
20	...	42 31·74	...	42 45·1	M
21	...	42 31·64	...	42 44·7	M
Apl. 12	...	42 31·79	...	42 45·5	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
Apl. 22	...	11 42 31·72	...	74 42 45·1	R
23	...	42 31·78	...	42 44·4	R
26	...	42 31·70	...	42 43·8	R
27	...	42 31·71	...	42 43·7	R
May 3	...	42 31·75	...	42 44·5	R
6	...	42 31·68	...	42 44·7	R
8	...	42 31·76	...	42 44·8	M
11	...	42 31·80	...	42 45·2	M
20	...	42 31·80	...	42 44·8	M
516	*B. A. C.* 3996.				
Mar. 14	6·1	11 42 33·70	...	84 5 57·2	M
25	6·3	42 33·45	...	5 59·7	M
Apl. 3	6·0	42 33·47	...	6 0·3	M
517	*W. B. E.* XI. 805.				
Mar. 18	8·0	11 47 55·27	6	85 15 4·2	M
22	8·0	47 55·11	6	15 2·5	M
518	*Bonn* +4°. 2543.				
Mar. 27	9·2	11 48 8·10	5	85 30 45·0	M
May 9	9·1	48 7·92	...	30 44·8	M
10	9·1	48 8·20	...	30 45·7	M
11	9·0	48 8·08	...	30 44·1	M
13	9·0	48 8·12	...	30 44·1	M
14	9·0	48 8·08	...	30 44·1	M
17	9·0	48 8·13	...	30 44·0	M
519	*Bonn* +4°. 2550.				
May 7	10·2	11 50 57·53	5	85 21 57·5	R
22	10·2	50 57·45	...	21 58·6	M
520	*Taylor* 6389.				
Apl. 1	7·4	11 51 40·35	...	85 48 18·3	M
521	*Anon.*				
Apl. 9	9·0	11 52 44·70	5	154 35 12·7	R
522	7 *Virginis b*				
Apl. 3	5·7	11 53 23·51	...	85 37 54·5	M
523	8 *Virginis* π				
Mar. 23	5·0	11 54 18·95	...	82 40 19·9	M
Apl. 19	...	54 18·79	...	40 17·5	R
20	...	54 18·85	...	40 19·1	R
524	*Taylor* 6440.				
Apl. 27	...	11 58 9·87	...	85 42 48·7	R
525	*R. P. L.* 89.				
Mar. 21	...	11 58 16·24	3	3 42 13·3	M
	R. P. L. 89—*s.p.*				
Oct. 21	...	11 58 16·95	3	3 42 12·5	R
526	*Anon.*				
Mar. 27	8·8	12 1 32·22	...	150 24 8·8	M
527	*W. B. E.* XII. 9.				
May 11	8·9	12 2 52·52	...	86 50 50·8	M
13	9·0	2 52·47	...	50 51·7	M
14	9·0	2 52·56	...	50 51·0	M
15	9·0	2 52·47	...	50 50·6	M
17	9·0	2 52·59	...	50 50·6	M
528	*Lacaille* 5041.				
Mar. 30	7·8	12 2 57·52	5	141 25 53·6	M
529	10 *Virginis.*				
Feb. 26	...	12 3 7·65	...	87 22 59·5	R
530	2 *Corvi* ϵ				
Mar. 18	...	12 3 32·50	...	111 54 28·9	M
19	...	3 32·65	...	54 27·0	M
20	...	3 32·52	...	54 28·9	M
28	...	3 32·63	...	54 28·8	M
Apl. 8	...	3 32·56	...	54 28·5	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
Apl. 9	...	12 3 32·79	...	111 54 30·8	R
10	...	3 32·76	...	54 26·9	R
May 3	...	3 32·71	...	54 28·6	R
4	...	3 32·71	5	54 28·9	R
8	...	3 32·61	...	54 29·0	M
16	...	3 32·71	...	54 27·7	M
531		*Anon.*			
May 6	8·9	12 4 14·95	5	145 58 59·8	R
7	9·0	4 14·94	...	58 59·8	R
532		*Lalande* 22869.			
May 18	9·5	12 4 59·82	...	86 40 46·0	M
25	9·6	4 59·87	...	40 46·5	M
533		*Anon.*			
Apl. 12	...	12 6 12·96	...	134 10 51·6	R
534		*Anon.*			
May 21	8·7	12 6 21·21		150 21 46·5	M
535		*W. B. L.* XII. 87.			
Apl. 1	7·5	12 7 23·49	5	87 1 38·5	M
536		69 *Ursæ Majoris* δ			
Apl. 26	...	12 8 4·88	5	32 15 20·7	R
537		*W. B. E.* XII. 174.			
May 9	8·0	12 12 28·05	...	88 7 23·8	M
10	8·0	12 28·08	...	7 24·1	M
11	8·0	12 27·90	...	7 23·8	M
13	8·0	12 28·01	...	7 24·4	M
14	8·0	12 28·13	...	7 23·9	M
538		*R. P. L.* 92.			
May 22	...	12 13 7·37	2	2 51 7·9	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
539		*Anon.*			
May 6	8·5	12 13 18·54		103 33 47·2	R
540		15 *Virginis* η			
Mar. 15	...	12 13 21·45	...	89 57 19·6	M
Apl. 3	...	13 21·48	...	57 19·3	M
9	...	13 21·48	...	57 20·2	R
10	...	13 21·55	5	57 18·5	R
May 15	...	13 21·51	...	57 18·6	M
17	...	13 21·44	...	57 18·4	M
541		16 *Virginis* c			
Feb. 26	...	12 13 50·89	...	85 58 28·2	R
542		93 *R. P. L.*—*s.p.*			
Nov. 1	...	12 14 20·37	2	1 35 28·0	M
543		*Lacaille* 5119.			
Mar. 27	8·3	12 15 47·17		138 36 57·4	M
544		*W. B. E.* XII. 269.			
May 13	7·9	12 18 8·04	...	87 54 26·4	M
14	8·0	18 8·04	...	54 26·2	M
15	8·0	18 7·97	6	54 26·2	M
16	8·0	18 7·97	...	54 26·0	M
17	8·0	18 8·04	6	54 26·6	M
545		*Anon.*			
May 20	8·0	12 19 29·07	5	147 24 0·2	M
546		*a Crucis.*			
Apl. 12	...	12 19 29·40	...	152 23 25·3	R
17	...	19 29·65	5	23 25·3	R
547		*Taylor* 5710.			
May 25	7·0	12 20 27·33	...	147 36 31·1	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
548		*Anon.*			
May 7	9·0	12 21 36·61	...	147 28 32·0	R
9	9·0	21 36·51	4	28 32·7	M
549		*Anon.*			
Apl. 11	9·5	12 23 38·50	6	87 3 39·9	R
550		*Anon.*			
Apl. 20	9·0	12 25 5·27	5	151 1 16·7	R
551		*Anon.*			
Apl. 1	8·2	12 27 27·31	6	38 3 6·3	M
3	8·3	27 27·33	...	3 6·5	M
552		9 *Corvi* β			
Mar. 14	...	12 27 39·93	...	112 41 20·1	M
15	...	27 39·98	...	41 19·7	M
27	...	27 39·92	...	41 18·3	M
May 6	...	27 39·98	...	41 19·3	R
553		*Taylor* 5785.			
May 10	7·9	12 28 13·38	...	151 2 6·2	M
554		*Anon.*			
May 18	8·5	12 28 15·39	5	141 42 34·8	M
555		*Lalande* 23532.			
Apl. 11	8·2	12 28 53·15	5	92 50 27·2	R
13	8·3	28 53·26	...	50 28·1	R
May 16	8·2	28 53·08	...	50 26·5	M
21	8·4	28 53·22	...	50 25·8	M
27	8·6	28 53·19	...	50 26·6	M
556		*Anon.*			
May 22	9·0	12 33 1·65	...	100 7 21·9	M
557		*Anon.*			
May 14	7·4	12 33 13·46	5	28 16 2·6	M
15	7·5	33 13·50	...	16 1·7	M
558		29 *Virginis* γ^1, (*North.*)			
Apl. 20	...	12 35 10·33	...	90 44 47·9	R
559		28 *Virginis.*			
Apl. 15	...	12 35 20·74	...	96 47 47·5	R
May 25	6·5	35 20·61	...	47 45·0	M
560		*S Ursæ Majoris, Var.* 2.			
May 4	10·0	12 38 20·06	5	28 12 18·4	R
561		*Anon.*			
Apl. 11	9·7	12 38 31·83	...	96 15 12·7	R
May 9	9·2	38 31·68	...	15 18·9	M
11	9·1	38 31·70	...	15 14·8	M
13	9·1	38 31·63	...	15 14·2	M
14	9·1	38 31·65	5	15 18·9	M
562		35 *Virginis.*			
Apl. 20	...	12 41 20·42	...	85 43 40·6	R
563		*Anon.*			
May 16	8·9	12 42 52·07	...	147 21 23·4	M
564		*Anon.*			
May 6	9·0	12 43 14·48	...	142 54 34·4	R
565		*Anon.*			
May 20	9·1	12 43 18·22	4	139 27 56·5	M
566		*U Virginis, Var.* 3.			
Apl. 1	8·0	12 44 36·21	6	83 44 58·6	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
567		37 *Virginis.*			
May 21	6·0	12 45 5·92	...	86 14 49·7	M
568		*Anon.*			
Apl. 11	9·5	12 45 34·66	...	88 21 44·9	R
569		*R. P. L.* 99.			
Apl. 9	...	12 48 12·45	3	5 53 28·2	R
24	...	48 12·88	5	53 26·2	R
May 3	...	48 13·19	3	53 27·1	R
9	...	48 12·90	2	53 28·2	M
17	...	48 12·51	3	53 26·9	M
June 1	...	48 12·32	3	53 27·6	M
		R. P. L. 99—*s.p.*			
Nov. 5	...	12 48 12·71	3	5 53 32·3	M
25	...	48 12·87	1	53 30·9	M
570		*Anon.*			
May 7	9·5	12 48 54·87	...	125 27 56·2	R
571		43 *Virginis* δ			
May 10	...	12 49 9·45	...	85 54 24·2	M
27	...	49 9·38	...	54 23·4	M
572		*Anon.*			
Apl. 20	8·0	12 49 51·50	...	145 36 49·2	R
573		12 *Canum Venaticorum* α			
Mar. 14	...	12 50 2·12	...	50 59 24·5	M
Apl. 22	...	50 2·27	...	59 23·3	R
574		*O. A. S.* 12539.			
Apl. 12	7·2	12 50 25·66	5	118 10 29·4	R
May 11	6·8	50 25·58	...	10 27·3	M
18	6·7	50 25·74	...	10 28·5	M
22	6·8	50 25·72	...	10 29·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
575		*Anon.*			
Apl. 15	9·0	12 51 36·51	5	127 7 43·1	R
576		44 *Virginis* κ			
Feb. 26	...	12 53 3·98	...	93 7 17·0	R
577		*Anon.*			
May 6	7·8	12 53 35·60	...	142 26 40·7	R
578		*Anon.*			
May 16	9·3	12 55 5·69	4	139 20 59·1	M
579		*Anon.*			
Apl. 20	8·8	12 56 15·20	...	149 30 6·2	R
580		48 *Virginis.*			
Feb. 26	...	12 57 18·78	6	92 58 26·8	R
581		*Anon.*			
May 7	...	12 57 36·85	5	113 15 9·5	R
582		50 *Virginis.*			
Apl. 10	6·7	12 3 3·41	...	99 38 44·7	R
May 8	...	3 3·32	...	38 45·3	M
583		51 *Virginis* θ			
Mar. 27	...	13 3 19·29	...	94 51 18·3	M
Apl. 13	...	3 19·53	...	51 18·4	R
26	...	3 19·45	...	51 20·0	R
May 7	...	3 19·43	...	51 19·1	R
9	...	3 19·46	...	51 17·7	M
10	...	3 19·42	...	51 19·2	M
11	...	3 19·38	...	51 18·3	M
13	...	3 19·34	...	51 18·7	M
14	...	3 19·54	...	51 18·1	M
15	...	3 19·28	...	51 17·2	M
18	...	3 19·51	...	51 18·3	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
May 20	...	13 3 19·37	...	94 51 18·4	M
" 21	...	3 19·50	...	51 18·5	M
25	...	3 19·46	...	51 17·9	M
27	...	3 19·44	...	51 19·6	M
June 5	...	3 19·35	...	51 18·5	M
584		*Anon.*			
Apl. 16	8·8	13 5 4·28	...	143 14 56·3	R
June 3	9·5	5 4·30	...	14 55·4	M
585		*Anon.*			
Apl. 22	9·0	13 6 3·79	...	124 19 3·6	R
586		*O. A. N.* 13563.			
Apl. 16	8·2	13 15 42·41	...	27 55 44·8	R
May 11	8·4	15 42·48	...	55 46·5	M
587		*Anon.*			
May 18	8·9	13 16 17·64	...	145 15 23·5	M
588		65 *Virginis.*			
Apl. 26	...	13 16 41·03	...	94 15 16·5	R
27	...	16 41·05	...	15 17·7	R
May 16	6·0	16 40·81	...	15 16·0	M
589		*Anón.*			
Apl. 18	9·6	13 17 34·37	...	128 11 58·4	R
590		66 *Virginis.*			
Apl. 22	...	13 17 53·45	...	94 29 39·8	R
591		67 *Virginis α, Spica.*			
May 4	...	13 18 27·02	...	100 29 33·1	R
6	...	18 27·06	...	29 34·0	R
13	...	18 27·19	...	29 33·7	M
20	...	18 27·11	...	29 32·3	M
27	...	18 27·18	...	29 33·8	M
29	...	18 27·17	...	29 33·3	M
31	...	18 27·15	...	29 32·8	M
June 5	...	18 27·12	...	29 32·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
592		79 *Ursæ Majoris ζ, Mizar—1st.*			
May 25	...	13 18 46·20	...	84 24 20·6	M
June 4	...	18 46·14	...	24 20·8	M
593		79 *Ursæ Majoris ζ, Mizar—2nd.*			
June 7	...	13 18 47·04	...	84 24 33·0	R
594		*Anon.*			
Apl. 15	9·5	13 22 15·83	5	112 30 27·8	R
595		*R Hydræ, Var.* 1.			
Apl. 19	9·0	13 22 43·37	...	112 37 8·3	R
May 15	7·6	22 43·26	...	37 8·1	M
17	7·6	22 43·12	...	37 7·9	M
596		*Anon.*			
Apl. 16	9·0	13 25 15·28	...	128 11 11·6	R
597		*Anon.*			
June 1	9·0	13 25 16·79	...	124 11 37·7	M
3	9·0	25 17·02	...	11 37·2	M
598		74 *Virginis* l^3			
May 25	...	13 25 18·73	5	95 35 39·0	M
26	...	25 18·71	4	35 39·9	M
599		*Anon.*			
Mar. 27	8·6	13 25 59·05	...	128 12 50·3	M
600		*Taylor* 6257.			
May 16	8·5	15 26 6·99	6	148 50 53·5	M
22	8·0	26 6·76	...	50 53·9	M
601		*Anon.*			
June 11	8·0	13 27 6·08	...	131 37 40·7	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
602		*79 Virginis ζ*			
May 4	...	13 26 10·85	...	89 56 27·1	R
21	...	28 10·81	...	56 26·6	M
27	...	28 10·88	...	56 26·6	M
31	...	28 10·29	...	56 26·9	M
June 5	...	28 10·88	...	56 26·2	M
603		*80 Virginis.*			
Mar. 25	...	13 28 51·89	...	94 44 37·0	M
26	...	28 51·87	5	44 36·6	M
604		*Anon.*			
Apl. 26	...	13 30 1·47	4	151 5 14·9	R
May 6	8·0	30 1·47	5	5 14·0	R
605		*Lacaille* 5614.			
May 7	8·0	13 30 24·68	...	128 14 35·4	R
606		*Anon.*			
June 8	10·2	13 34 31·09	...	129 12 26·9	R
607		*82 Virginis m*			
May 20	6·0	13 34 53·73	...	98 3 22·4	M
608		*Bonn* +0°.3090.			
May 25	9·3	13 35 24·02	...	89 27 57·7	M
609		*Anon.*			
June 11	9·2	13 36 42·85	...	128 7 48·3	R
610		*Taylor* 6366.			
May. 4	7·0	13 37 25·54	...	151 48 30·6	R
611		*Lacaille* 5659.			
Apl. 16	8·0	13 37 41·25	5	152 15 59·0	R
612		*Anon.*			
June 1	8·0	13 37 59·29	...	128 42 43·2	M
3	8·3	37 59·62	...	42 42·6	M
613		*Taylor* 6374.			
May 6	7·0	13 38 16·69	5	151 56 51·7	R
18	7·3	38 17·07	...	56 54·1	M
614		*Anon.*			
May 7	9·5	13 39 7·07	5	152 48 30·1	R
615		*85 Ursæ Majoris η, Benetnasch.*			
Apl. 13	...	13 42 29·55	...	40 2 55·4	R
616		*89 Virginis.*			
Apl. 26	...	13 42 55·21	...	107 29 43·8	R
May 9	...	42 55·13	...	29 43·6	M
617		*Anon—2nd.*			
June 4	10·0	13 45 59·55	6	128 25 35·0	M
618		*X Virginis, Var.* 5.			
May 6	8·9	13 47 38·66	...	78 18 15·5	R
619		*Taylor* 6473.			
May 20	6·5	13 48 15·33	5	97 25 39·8	M
620		*8 Bootis η*			
Mar. 27	...	13 48 35·44	...	70 57 35·5	M
May 4	...	48 35·43	...	57 35·1	R
7	...	48 35·42	...	57 35·6	R
9	...	48 35·21	...	57 34·2	M
10	...	48 35·32	...	57 35·4	M
21	...	48 35·37	4	57 34·2	M
22	...	48 35·43	...	57 35·1	M
27	...	48 35·31	...	57 35·6	M
29	...	48 35·40	...	57 36·1	M
31	...	48 35·43	...	57 34·9	M
June 5	...	48 35·37	...	57 35·4	M
8	...	48 35·29	...	57 35·2	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
621		*Anon.*			
May 13	8·2	13 50 32·70	...	149 56 32·3	M
622		*Anon.*			
June 1	8·4	13 50 39·48	...	123 46 7·4	M
623		*Anon.*			
May 11	8·0	13 51 8·57	5	123 46 17·9	M
June 7	8·5	51 8·39	...	46 18·4	R
624		*Anon.*			
Apl. 26	9·0	13 53 37·67	...	135 43 11·9	R
May 25	8·6	53 37·66	...	43 14·7	M
625		93 *Virginis* τ			
Apl. 24	...	13 55 8·01	...	87 50 5·5	R
25	...	55 8·08	...	50 5·9	R
May 7	...	55 7·98	...	50 6·5	R
29	...	55 7·92	...	50 6·6	M
31	...	55 7·93	...	50 6·0	M
June 3	...	55 8·08	...	50 6·0	M
8	...	55 8·14	...	50 6·9	R
10	...	55 8·02	...	50 7·0	R
11	...	55 8·01	...	50 5·7	R
12	...	55 7·96	...	50 6·6	R
626		*Lacaille* 5794.			
May 8	6·3	13 57 39·70	...	152 49 56·5	M
627		*Anon.*			
May 10	8·6	13 58 43·50	5	129 22 24·0	M
628		95 *Virginis.*			
Apl. 22	...	13 59 56·75	...	98 42 5·2	R
23	...	59 56·77	...	42 6·3	R
629		*Anon.*			
June 10	9·8	14 0 55·63	...	150 53 23·9	R
630		*Anon.*			
Apl. 24	...	14 2 30·51	...	124 18 29·0	R
26	9·5	2 30·59	...	18 28·9	R
631		*R. P. L.* 108—*s.p.*			
June 4	...	14 2 53·20	3	3 37 45·4	M
632		*Anon.*			
May 7	8·9	14 2 54·09	...	129 6 34·4	R
June 4	8·8	2 55·14	...	6 35·0	M
633		*Bootis, Var.* 4.			
June 8	9·5	14 4 45·07	...	79 34 49·9	R
12	9·8	4 45·22	...	34 49·5	R
634		98 *Virginis* κ			
Apl. 22	...	14 6 4·12	6	99 40 36·3	R
23	...	6 4·18	...	40 36·4	R
635		99 *Virginis* ι			
May 8	...	14 9 18·13	...	95 23 18·1	M
636		16 *Bootis* α, *Arcturus.*			
Apl. 24	...	14 9 49·50	...	70 9 0·2	R
25	...	9 49·43	...	9 0·9	R
May 9	...	9 49·49	...	8 58·7	M
10	...	9 49·57	...	9 2·3	M
17	...	9 49·45	...	9 1·7	M
18	...	9 49·46	...	9 2·1	M
23	...	9 49·41	...	9 0·3	M
June 1	...	9 49·42	...	9 0·9	M
3	...	9 49·37	...	9 1·3	M
10	...	9 49·41	...	9 3·0	R
12	...	9 49·39	...	9 1·8	R
637		*Anon.*			
June 7	10·0	14 11 54·43	...	124 18 44·4	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
638 *Anon.*					
May 11	9·6	14 11 58·02	...	124 29 49·0	M
639 100 *Virginis* λ					
Mar. 27	...	14 12 11·17	...	102 46 50·2	M
640 *W. B. E.* XIV. 192.					
May 7	7·7	14 12 17·56	...	103 48 55·7	R
641 *Anon.*					
May 13	8·6	14 15 2·87	...	122 37 59·9	M
642 *Taylor* 6709.					
Apl 27	...	14 16 26·64	...	119 5 34·3	R
May 16	7·0	16 26·41	6	5 33·7	M
643 *S Bootis, Var.* 2.					
Apl. 24	8·0	14 18 35·73	...	35 36 25·9	R
25	8·0	18 35·71	5	36 24·4	R
May 4	9·9	18 35·73	5	36 23·6	R
644 *Anon.*					
June 1	9·2	14 20 2·40	...	124 40 33·7	M
7	9·2	20 2·53	6	40 34·5	R
645 *Anon.*					
May 9	8·8	14 22 26·17	...	122 36 9·3	M
646 *Lacaille* 5962.					
May 8	7·9	14 23 11·85	...	129 48 56·4	M
647 *Anon.*					
May 15	9·0	14 23 25·80	...	129 48 9·3	M
17	9·0	23 25·62	...	48 10·0	M
648 *Anon.*					
May 10	8·0	14 24 13·90	...	136 56 33·1	M
18	8·0	24 14·01	...	56 35·9	M
649 *Anon.*					
June 10	9·0	14 24 41·69	...	123 50 46·8	R
650 *O. A. N.* 14634.					
June 12	8·9	14 25 59·00	...	20 10 32·8	R
651 25 *Bootis* ρ					
Apl. 24	...	14 26 18·74	...	59 3 56·6	R
25	...	26 18·75	...	3 56·8	R
May 14	...	26 18·70	...	3 57·1	M
21	...	26 18·80	...	3 56·6	M
22	...	26 18·82	...	3 56·0	M
June 4	...	26 18·83	...	3 56·3	M
652 *O. A. N.* 14652.					
June 3	7·8	14 27 8·39	5	20 9 6·1	M
653 *R Bootis, Var.* 1.					
June 10	8·7	14 31 32·89	...	62 42 26·5	R
654 *Lacaille* 6027.					
May 11	7·9	14 31 33·08	...	122 49 24·0	M
655 *Anon.*					
May 9	7·9	14 33 11·00	...	121 46 23·7	M
16	7·7	33 10·76	...	46 25·5	M
656 *Taylor* 6848.					
May 13	7·6	14 33 20·03	...	136 43 26·0	M
657 *Anon.*					
June 7	9·0	14 33 25·14	...	126 19 54·0	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
658		*a Lupi.*			
May 18	...	14 33 25·91	...	136 50 13·4	M
June 1	...	33 25·67	...	50 12·8	M
659		5 *Libræ.*			
May 20	6·3	14 38 54·39	...	104 55 6·0	M
660		36 *Bootis* ϵ^2, *Mirac.*			
May 10	...	14 39 23·78	...	62 23 6·6	M
24	...	39 23·70	...	23 4·8	M
25	...	39 23·81	...	23 5·4	M
June 4	...	39 23·88	...	23 4·7	M
661		*Brisbane* 5069.			
June 7	8·7	14 41 54·73	...	131 18 46·0	R
662		8 *Libræ* α^1			
June 10	5·7	14 43 36·66	...	105 27 50·4	R
11	5·8	43 36·67	...	27 49·1	R
663		9 *Libræ* α^2			
Apl. 23	...	14 43 47·97	...	105 30 30·8	R
May 11	...	43 47·99	...	30 30·0	M
13	...	43 47·91	...	30 30·2	M
15	...	43 48·05	...	30 30·0	M
16	...	43 48·03	...	30 31·0	M
18	...	43 47·99	...	30 30·5	M
23	...	43 47·97	...	30 31·0	M
June 4	...	43 48·01	...	30 30·2	M
664		*Anon.*			
June 12	8·2	14 45 55·35	...	101 51 24·7	R
665		*Anon.*			
June 8	9·0	14 50 54·07	...	130 34 11·2	R
666		*Taylor* 6991.			
June 10	5·0	14 52 8·29	...	39 50 52·0	R
667		19 *Libræ* δ, *Var.* 4.			
May 16	5·0	14 54 8·03	...	98 0 34·5	M
17	5·5	54 8·13	...	0 34·3	M
668		*O. A. N.* 15023.			
May 25	7·1	14 55 50·41	...	27 49 23·7	M
669		*Anon.*			
May 23	8·2	14 58 13·67	6	131 32 36·4	M
670		*Taylor* 7036.			
May 10	6·6	14 58 18·70	5	62 25 1·8	M
15	6·8	58 18·79	5	25 1·0	M
18	6·8	58 18·77	...	25 2·0	M
671		43 *Bootis* ψ			
May 14	...	14 58 57·66	...	62 33 7·3	M
20	...	58 57·65	...	33 6·6	M
June 7	...	58 57·62	...	33 7·5	R
10	...	58 57·70	...	33 8·7	R
July 2	...	58 57·51	...	33 5·7	R
672		21 *Libræ* ν^1			
Apl. 23	...	14 59 29·33	...	105 45 31·9	R
24	...	59 29·33	...	45 31·9	R
673		*Anon.*			
July 4	8·2	15 1 23·94	6	97 24 14·6	R
674		*W. B. E.* XV. 32.			
May 16	8·6	15 3 52·43	...	97 3 27·0	M
675		*O. A. N.* 15138.			
June 12	9·0	15 4 23·74	...	43 1 57·4	R
676		*R. P. L.* 111.			
Mar. 27	...	15 4 49·20	2	5 33 15·1	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
677		*27 Libræ β*			
May 13	...	15 10 7·25	...	98 54 32·6	M
14	...	10 7·23	...	54 33·9	M
24	...	10 7·31	...	54 31·5	M
25	...	10 7·25	...	54 31·8	M
June 1	...	10 7·29	...	54 33·4	M
July 8	...	10 7·25	...	54 32·3	R
678		*Taylor* 8048.			
May 31	6·0	15 12 40·19	...	68 57 28·0	M
June 10	6·2	12 40·31	...	57 31·0	R
11	...	12 40·19	...	57 28·2	R
679		*Redhill* 2293—*s.p.*			
Nov. 9	...	15 13 44·13	3	4 23 3·0	M
680		*Lalande* 28028.			
May 8	7·6	15 15 38·87	...	53 3 45·9	M
15	7·5	15 38·89	6	3 43·0	M
16	7·6	15 38·88	...	3 45·5	M
681		*S Coronæ Borealis, Var.* 2.			
June 12	9·0	15 16 10·96	...	58 10 17·7	R
July 4	8·8	16 11·10	...	10 16·3	R
682		*31 Libræ ϵ*			
June 8	...	15 17 15·76	...	99 51 37·5	M
683		*Lacaille* 6377.			
May 28	8·0	15 19 25·36	...	130 12 37·8	M
July 3	8·0	19 25·34	...	12 37·6	R
684		*Taylor* 7220.			
June 1	8·0	15 22 36·66	...	128 8 16·8	M
685		*Anon.*			
July 4	9·0	15 23 7·60	5	151 38 44·2	R
686		*38 Libræ γ*			
Mar. 27	...	15 28 21·90	...	104 21 40·2	M
May 21	...	28 22·00	...	21 39·2	M
22	...	28 22·06	...	21 39·2	M
687		*5 Coronæ Borealis a, Alpheta.*			
May 16	...	15 29 16·10	...	62 51 12·6	M
17	...	29 16·06	...	51 11·5	M
18	...	29 16·02	...	51 11·6	M
23	...	29 16·20	...	51 11·3	M
25	...	29 16·07	...	51 11·5	M
June 4	...	29 16·07	...	51 12·0	M
July 3	...	29 16·08	...	51 12·1	R
688		*Anon.*			
July 4	9·2	15 30 41·49	...	129 35 5·6	R
689		*W. B. E.* XV. 587.			
May 8	8·0	15 32 19·67	...	103 29 11·8	M
690		*Taylor* 7300.			
June 3	7·8	15 32 41·62	...	103 38 10·6	M
691		*43 Libræ κ*			
July 2	...	15 34 34·57	...	109 15 43·1	R
692		*W. B. E.* XV. 704.			
July 3	9·2	15 37 40·53	...	92 36 23·7	R
693		*24 Serpentis a*			
May 22	...	15 37 57·84	...	83 10 11·5	M
June 1	...	37 57·81	...	10 12·0	M
July 4	...	37 57·84	...	10 12·6	R
694		*Anon.*			
June 10	9·5	15 41 46·66	6	62 4 47·9	R

[47·9]

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
695	*R Coronæ Borealis, Var.* 1.				
Apl. 24	9·0	15 43 17·86	4	61 26 58·1	R
696	*W. B. E.* XV. 838.				
May 23	8·1	15 44 26·79	...	104 28 28·8	M
24	8·0	44 26·70	...	28 29·2	M
697	36 *Serpentis b*				
May 31	6·0	15 44 35·73	...	92 42 5·6	M
698	*R Serpentis, Var.* 2.				
June 11	...	15 44 47·76	...	74 28 35·0	R
699	46 *Libræ θ*				
May 21	4·7	15 46 32·40	...	106 21 5·9	M
700	*R. P. L.* 115—*s.p.*				
Dec. 7	...	15 47 16·51	1	5 45 23·2	R
27	...	47 15·92	3	45 25·0	M
701	1 *Herculis χ*				
July 2	...	15 48 15·04	...	47 11 19·7	R
702	*Lalande* 28970.				
May 20	8·0	15 48 19·37	6	70 50 32·3	M
703	16 *Ursæ Minoris ζ*				
June 8	...	15 48 41·07	5	11 48 45·0	R
704	*Lalande* 29054.				
June 4	8·7	15 50 57·61	...	104 5 2·6	M
705	*Lalande* 29193.				
May 31	7·0	15 56 9·67	...	86 58 59·7	M
706	*W. B. E.* XV. 1047.				
June 3	8·3	15 56 21·20	...	91 17 31·7	M
707	8 *Scorpii* β^1				
June 8	...	15 57 59·80	...	109 27 12·8	R
29	...	57 59·85	...	27 10·8	R
July 2	...	57 59·88	...	27 10·8	R
18	...	57 59·72	...	27 10·1	M
708	9 *Scorpii* ω^1				
Apl. 24	...	15 59 19·23	...	110 19 15·5	R
25	...	59 19·31	...	19 13·7	R
709	*O. A. S.* 15281.				
June 7	9·0	16 1 25·91	6	105 45 4·7	R
710	*Lalande* 29414.				
July 3	8·0	16 2 45·91	...	102 32 48·5	R
711	*O. A. S.* 15342.				
June 11	9·0	16 3 53·85	...	107 46 48·9	R
712	14 *Scorpii ν*				
Apl. 24	...	16 4 33·42	...	109 7 32·8	R
25	...	4 33·57	...	7 32·5	R
713	1 *Ophiuchi δ*				
June 3	...	16 7 38·30	...	93 21 47·4	M
12	...	7 38·39	...	21 49·4	R
20	...	7 38·22	...	21 47·4	R
July 2	...	7 38·39	...	21 46·7	R
4	...	7 38·30	...	21 46·6	R
12	...	7 38·31	...	21 47·1	M
714	*O. A. S.* 15504.				
June 8	9·8	16 11 49·02	...	106 42 40·8	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
715		*O. A. S.* 15613.			
May 31	7·5	16 17 43·89	...	113 9 45·4	M
716		7 *Ophiuchi* χ			
July 12	6·2	16 19 36·31	...	108 9 49·7	M
717		21 *Scorpii* α, *Antares.*			
June 3	...	16 21 33·69	...	116 8 44·0	M
7	...	21 33·78	...	8 43·9	R
29	...	21 33·71	...	8 43·3	R
July 4	...	21 33·71	...	8 43·5	R
718		*Lalande* 30042.			
July 3	9·0	16 23 0·21	...	48 27 55·4	R
719		9 *Ophiuchi* ω			
May 22	...	16 24 33·06	...	111 11 25·7	M
23	...	24 33·09	...	11 24·9	M
720		*Anon.*			
July 27	9·1	16 26 57·35	...	130 55 56·2	M
30	8·9	26 57·24	...	55 55·5	M
721		23 *Scorpii* τ			
July 2	...	16 27 55·10	...	117 56 53·4	R
722		*Anon.*			
June 11	8·9	16 29 5·99	5	152 17 47·3	R
723		*Anon.*			
July 4	10·0	16 29 42·27	4	130 52 22·6	R
724		*Taylor* 7723.			
July 31	5·9	16 34 10·38	...	107 29 29·2	M
725		*Taylor* 7724.			
May 22	6·2	16 34 22·38	...	109 40 37·3	M
23	6·5	34 22·42	...	40 37·1	M
726		40 *Herculis* ζ			
May 24	...	16 36 27·75	...	58 9 50·6	M
June 7	...	36 27·69	...	9 50·4	R
11	...	36 27·67	...	9 51·8	R
July 3	...	36 27·72	...	9 51·0	R
12	...	36 27·71	5	9 51·1	M
13	...	36 27·69	...	9 50·3	M
15	...	36 27·73	...	9 49·8	M
727		*Anon.*			
July 26	8·9	16 37 17·15	...	130 58 54·4	M
27	8·8	37 17·16	6	58 55·1	M
728		*O. A. S.* 15952.			
July 30	...	16 39 50·85	...	111 56 28·2	M
729		*Anon.*			
June 8	9·0	16 44 57·93	...	131 2 12·8	R
730		*Anon.*			
July 3	...	16 45 8·15	6	130 19 1·5	R
731		*S Herculis, Var.* 3.			
July 4	8·5	16 46 4·28	5	74 50 29·5	R
732		*Anon.*			
July 31	...	16 49 25·49	5	125 32 6·4	M
733		27 *Ophiuchi* κ			
June 11	...	16 51 36·57	...	80 25 26·0	R
July 12	...	51 36·54	...	25 27·3	M
13	...	51 36·57	...	25 26·6	M
15	...	51 36·64	...	25 25·6	M

22·2

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
734		*Anon.*			
July 27	8·3	16 52 36·52	...	122 49 38·3	M
30	8·4	52 36·33	...	49 37·6	M
735		*O. A. S.* 16233.			
July 26	8·0	16 54 27·05	...	110 24 20·2	M
736		*Anon.*			
Aug. 1	8·5	16 56 22·87	...	130 55 25·3	R
2	8·8	56 22·94	...	55 25·3	R
737		22 *Ursæ Minoris* ϵ			
June 29	...	16 59 9·97	5	7 45 21·0	R
		22 *Ursæ Minoris* ϵ—*s.p.*			
Jan. 6	...	16 59 9·25	7	7 45 28·0	R
15	...	59 10·59	5	45 24·4	M
23	...	59 10·54	5	45 23·8	M
24	...	59 10·28	3	45 23·4	M
30	...	59 10·14	3	45 24·6	M
Dec. 14	...	59 10·55	5	45 27·3	R
24	...	59 10·53	3	45 31·2	M
738		*Anon.*			
July 31	8·5	17 4 38·85	...	59 7 52·3	M
739		*O. A. S.* 16432.			
July 12	7·9	17 6 17·29	...	105 24 20·3	M
Aug. 2	7·5	6 17·12	...	24 15·4	R
740		*Anon.*			
July 26	8·2	17 7 40·96	...	130 43 7·6	M
27	8·5	7 41·27	6	43 7·9	M
30	8·1	7 41·29	...	43 7·8	M
741		64 *Herculis* a^1, *Var.* 1.			
July 13	...	17 8 48·45	...	75 27 42·4	M
15	...	8 48·59	...	27 42·0	M
25	...	8 48·65	...	27 43·3	M
Aug. 12	...	8 48·74	...	27 43·1	R
742		*Anon.*			
June 12	9·0	17 9 33·15	...	124 4 51·8	R
743		*Anon.*			
Aug. 2	9·5	17 12 32·05	...	130 28 13·2	R
744		42 *Ophiuchi* θ			
Apl. 25	...	17 14 8·97	...	114 52 8·6	R
Aug. 5	...	14 9·03	...	52 9·7	R
745		44 *Ophiuchi b*			
July 15	...	17 18 33·37	...	114 3 16·7	M
Aug. 1	...	18 33·35	...	3 18·4	R
746		45 *Ophiuchi d*			
July 13	4·5	17 19 10·94	...	119 44 54·9	M
747		*Anon.*			
July 26	8·4	17 21 37·75	...	130 44 1·1	M
748		*Anon.*			
July 30	8·9	17 21 46·84	...	130 46 6·0	M
749		*Anon.*			
July 31	8·1	17 21 56·17	...	130 33 23·6	M
750		*Brisbane* 6091.			
Aug. 2	8·2	17 22 1·60	5	148 27 30·1	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
751		55 *Ophiuchi a*			
July 20	...	17 28 59·48	4	77 20 40·8	M
25	...	28 59·60	...	20 42·3	M
27	...	28 59·54	...	20 42·4	M
Aug. 1	...	28 59·61	...	20 41·9	R
5	...	28 59·50	...	20 42·0	R
15	...	28 59·61	...	20 41·0	R
752		*Taylor* 8141.			
July 3	6·8	17 31 3·51	5	111 50 2·9	R
15	...	31 3·37	...	50 4·6	M
31	6·0	31 3·50	...	50 5·0	M
753		56 *Serpentis o*			
Aug. 2	...	17 34 13·30	...	102 48 17·3	R
754		*Anon.*			
July 30	9·0	17 34 45·82	...	128 57 47·0	M
755		*Anon.*			
July 25	8·5	17 40 16·65	...	127 14 50·6	M
26	8·6	40 16·65	...	14 49·9	M
756		86 *Herculis* μ			
July 20	...	17 41 26·98	...	62 12 9·4	M
27	...	41 26·84	...	12 10·1	M
Aug. 1	...	41 26·94	...	12 10·7	R
12	...	41 26·90	...	12 12·4	R
15	...	41 26·96	...	12 10·9	R
757		*Anon.*			
July 30	8·0	17 43 53·93	6	128 36 24·1	M
31	8·0	43 53·91	...	36 24·0	M
758		*Anon.*			
Aug. 2	8·2	17 45 34·61	...	128 35 30·5	R
759		*Anon.*			
Aug. 15	9·2	17 48 45·68	...	152 8 40·8	R
760		*Taylor* 8288.			
Aug. 12	7·0	17 48 57·31	...	105 47 17·1	R
761		4 *Sagittarii b*			
May 23	5·3	17 51 58·77	...	113 48 5·9	M
762		*Anon.*			
Aug. 1	9·0	17 52 33·01	5	130 49 34·7	R
763		9 *Sagittarii.*			
May 23	5·0	17 56 1·60	...	114 21 39·4	M
July 30	6·9	56 1·54	...	21 38·3	M
31	6·8	56 1·41	...	21 38·3	M
764		10 *Sagittarii* γ^1, *Var.* 6.			
July 12	...	17 56 50·71	...	119 35 0·3	M
26	...	56 50·64	...	34 59·3	M
765		*Bonn* +30°. 3133.			
July 25	8·0	18 3 21·73	...	59 1 9·5	M
766		*T Herculis, Var.* 4.			
Aug. 15	9·7	18 4 15·40	...	59 0 0·5	R
17	9·6	4 15·43	...	58 59 59·6	R
767		13 *Sagittarii* μ			
July 3	...	18 6 6·48	...	111 5 23·9	R
12	...	6 6·46	...	5 26·5	M
26	...	6 6·49	...	5 24·0	M
27	...	6 6·65	...	5 22·4	M
30	...	6 6·53	...	5 23·5	M
Aug. 12	...	6 6·46	...	5 23·9	R
20	...	6 6·60	...	5 23·8	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
768		*Anon.*			
July 31	7·9	18 7 15·47	...	122 22 39·1	M
769		23 *Ursæ Minoris* δ			
June 29	...	18 13 37·89	3	3 23 36·1	R
July 13	...	18 38·28	3	23 36·1	M
		23 *Ursæ Minoris* δ—*s.p.*			
Jan. 6	...	18 13 38·14	7	3 23 36·2	R
770		21 *Sagittarii.*			
Aug. 2	...	18 17 43·63	...	110 36 29·7	R
771		22 *Sagittarii* λ			
July 20	...	18 20 4·40	...	115 29 21·2	M
Aug. 20	...	20 4·34	...	29 22·8	R
772		*Taylor* 8516—*2nd.*			
July 12	6·0	18 22 28·78	...	104 39 50·1	M
773		*Anon.*			
Aug. 28	9·0	16 23 26·91	...	135 15 32·0	R
Sep. 3	8·9	23 26·89	...	15 31·4	M
774		*O. A. S.* 18326.			
Aug. 15	8·7	18 23 51·81	...	109 14 40·9	R
775		*U Sagittarii, Var.* 4.			
Aug. 17	7·2	18 24 20·94	4	109 12 43·2	R
776		*Anon.*			
Aug. 31	9·9	18 29 58·23	...	135 12 7·6	R
777		3 *Lyræ a, Vega.*			
July 18	...	18 32 36·17	4	51 20 3·1	M
20	...	32 36·23	...	20 2·3	M
30	...	32 36·11	...	20 3·9	M
Aug. 1	...	32 36·27	...	20 3·4	R
2	...	32 36·25	...	20 3·4	R
5	...	32 36·27	3	20 4·3	R
17	...	32 36·19	...	20 6·5	R
20	...	32 36·19	...	20 3·6	R
27	...	32 36·19	4	20 2·8	R
778		*Anon.*			
May 24	8·5	18 35 14·64	...	118 34 15·0	M
779		*Anon.*			
Aug. 15	9·7	18 35 35·67	...	137 15 53·5	R
780		*Lacaille* 7832.			
Aug. 28	8·0	18 38 17·99	5	149 5 4·3	R
Sep. 2	7·9	38 18·01	...	5 3·6	M
3	7·9	38 18·12	...	5 3·2	M
781		10 *Lyræ* β, *Var.* 1.			
July 20	...	18 45 21·38	...	56 47 3·1	M
25	...	45 21·24	...	47 5·3	M
26	...	45 21·12	5	47 2·8	M
27	...	45 21·21	...	47 4·6	M
Aug. 2	...	45 21·23	...	47 3·4	R
15	...	45 21·28	...	47 4·9	R
17	...	45 21·20	...	47 4·2	R
20	...	45 21·18	...	47 4·9	R
782		32 *Sagittarii* ν^1			
Sep. 4	5·5	18 46 26·74	...	112 53 59·4	M
783		*Lacaille* 7919.			
Aug. 28	8·0	18 48 16·10	5	129 4 35·0	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
784		13 *Lyræ, Var.* 2.			
Aug. 31	4·0	18 51 26·30	5	46 13 15·6	M
785		*R. P. L.* 131—*s.p.*			
Feb. 6	...	18 56 24·99	3	3 27 21·7	M
786		*O. A. S.* 19032.			
Sep. 3	9·1	18 57 34·38	...	111 16 16·7	M
5	9·2	57 34·32	...	16 16·9	M
787		17 *Aquilæ* ζ			
July 18	...	18 59 31·62	...	76 19 31·8	M
25	...	59 31·54	...	19 32·0	M
30	...	59 31·53	...	19 31·1	M
31	...	59 31·58	...	19 31·4	M
Aug. 27	...	59 31·64	...	19 30·0	R
28	...	59 31·55	5	19 31·6	R
31	...	59 31·61	...	19 29·0	R
Sep. 6	...	59 31·50	...	19 30·4	M
788		*Bonn.* 7°. 3971.			
Aug. 15	9·8	19 1 15·27	6	82 0 49·9	R
Sep. 9	9·0	1 15·26	6	0 48·1	M
789		41 *Sagittarii* π			
May 24	...	19 2 9·16	...	111 13 28·0	M
790		*Anon.*			
Sep. 7	8·0	19 3 42·99	...	139 22 0·3	M
791		42 *Sagittarii* ψ			
July 25	5·5	19 7 41·38	...	115 28 31·1	M
Sep. 2	5·6	7 41·50	...	28 28·9	M
792		*R Sagittarii, Var.* 1.			
Aug. 15	9·2	19 9 11·21	...	109 31 49·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
793		25 *Aquilæ* ω			
July 30	...	19 11 48·55	...	78 37 59·7	M
31	...	11 48·46	...	37 59·3	M
Aug. 28	...	11 48·46	4	37 59·3	R
31	...	11 48·38	...	38 0·2	R
794		*Lacaille* 8074.			
Sep. 3	6·6	19 13 10·89	...	132 15 8·3	M
4	6·7	13 11·14	4	15 8·7	M
11	6·9	13 10·85	...	15 8·0	M
795		45 *Sagittarii* ρ^2			
Sep. 5	5·7	19 14 22·74	5	108 32 36·7	M
6	6·0	14 22·93	...	32 36·1	M
796		30 *Aquilæ* δ			
Aug. 2	...	19 19 2·64	...	87 8 18·8	R
27	...	19 2·57	5	8 18·4	R
28	...	19 2·57	...	8 17·2	R
31	...	19 2·59	...	8 18·5	M
797		*Anon.*			
Aug. 15	9·8	19 19 42·29	...	128 37 31·9	R
Sep. 2	9·1	19 42·26	...	37 32·1	M
798		*Taylor* 8950.			
Aug. 12	...	19 22 46·31	...	143 27 8·7	R
799		*Anon.*			
Sep. 3	8·9	19 25 28·81	...	129 54 59·0	M
9	8·8	25 29·00	...	54 56·5	M
800		*Anon.*			
Sep. 7	9·0	19 25 42·48	...	127 48 21·4	M
801		*Anon.*			
July 25	7·6	19 26 40·04	...	131 23 49·5	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
802		51 *Sagittarii* h^1			
Aug. 28	...	19 28 15·20	...	114 59 49·6	R
Sep. 5	6·0	28 15·18	...	59 50·4	M
10	6·0	28 15·50	...	59 49·2	M
803		52 *Sagittarii* h^2			
July 31	...	19 28 54·91	...	115 9 47·2	M
Aug. 24	...	28 54·94	...	9 49·6	R
Sep. 11	...	28 54·87	6	9 48·4	M
804		*R Cygni, Var.* 3.			
Aug. 15	10·0	19 33 25·29	...	40 3 43·6	R
31	8·9	33 25·37	...	3 45·7	M
805		*Anon.*			
Sep. 2	8·0	19 34 22·44	6	127 44 11·9	M
806		*Anon.*			
Sep. 7	8·7	19 34 55·54	5	127 15 57·9	M
807		50 *Aquilæ* γ			
July 31	...	19 40 10·36	...	79 41 48·4	M
Aug. 24	...	40 10·34	...	41 48·9	R
Sep. 3	...	40 10·39	...	41 48·2	M
5	...	40 10·43	...	41 48·8	M
10	...	40 10·51	...	41 48·4	M
11	...	40 10·58	...	41 48·2	M
21	...	40 10·38	5	41 48·4	M
808		*S Vulpeculæ, Var.* 2.			
Aug. 31	9·5	19 43 8·93	...	63 1 50·3	R
809		53 *Aquilæ a, Altair.*			
July 26	...	19 44 32·35	...	81 28 3·0	M
Sep. 13	...	44 32·18	...	28 3·4	M
19	...	44 32·19	...	28 4·6	M
21	...	44 32·26	...	28 4·2	M
810		57 *Sagittarii.*			
July 25	6·0	19 44 45·67	...	109 22 5·2	M
811		*X Cygni, Var.* 2.			
Aug. 28	5·0	19 45 38·54	...	57 24 30·7	R
Sep. 7	5·7	45 38·69	...	24 30·7	M
812		*O. A. S.* 20055.			
Sep. 6	8·8	19 46 46·94	...	107 44 35·6	M
813		60 *Aquilæ* β			
Aug. 24	...	19 49 1·58	...	83 54 41·7	R
Sep. 2	...	49 1·58	...	54 40·3	M
10	...	49 1·48	...	54 41·6	M
11	...	49 1·54	...	54 40·0	M
13	...	49 1·66	...	54 40·4	M
19	...	49 1·33	...	54 39·5	M
814		*Anon.*			
Sep. 3	8·2	19 50 12·50	6	145 55 36·5	M
5	8·4	50 12·65	5	55 35·7	M
815		λ *Ursæ Minoris—s.p.*			
Jan. 25	...	19 52 18·64	2	1 4 35·2	M
Feb. 22	...	52 19·66	1	4 34·9	R
816		*Anon.*			
Sep. 9	9·5	19 54 16·57	...	107 11 1·6	M
817		*Anon.*			
Sep. 2	9·0	19 59 48·21	...	129 10 4·6	M
6	9·0	59 48·15	...	10 4·0	M
818		*Anon.*			
Sep. 7	8·0	20 4 50·88	6	147 18 12·1	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
819 *Lacaille* 8370.					
Sep. 8	7·0	20 7 40·18	...	152 17 49·6	M
820 *R Sagittarii, Var.* 1.					
Aug. 2	9·3	20 8 13·75	...	73 39 36·0	R
821 *O. A. S.* 20356.					
Sep. 9	8·0	20 8 49·44	5	110 24 41·3	M
822 5 *Capricorni* α^1					
Sep. 10	...	20 10 33·17	...	102 54 5·2	M
823 6 *Capricorni* α^2					
Aug. 28	...	20 10 57·03	...	102 56 28·1	R
Sep. 13	...	10 56·95	...	56 28·4	M
17	...	10 57·07	...	56 24·1	M
19	...	10 57·04	...	56 23·5	M
21	...	10 57·03	...	56 23·0	M
824 9 *Capricorni* β					
Sep. 6	...	20 13 48·97	6	105 11 1·0	M
825 *Lalande* 39125.					
Sep. 2	8·6	20 15 58·58	...	106 11 51·7	M
826 *Anon.*					
Sep. 5	9·2	20 16 10·95	...	106 16 9·1	M
827 11 *Capricorni* ρ					
Aug. 17	...	20 21 33·50	...	108 14 6·8	R
Sep. 8	...	21 33·41	...	14 5·3	M
17	...	21 33·38	...	14 5·2	M
19	...	21 33·60	...	14 5·7	M
21	...	21 33·45	...	14 5·0	M
828 24 *Cephei—s.p.*					
Feb. 13	...	20 22 1·56	1	1 15 31·8	R
Mar. 5	8·7	22 3·41	1	15 33·1	R
829 *Anon.*					
Sep. 13	8·7	20 23 29·53	...	125 56 54·3	M
830 *Anon.*					
Sep. 2	8·0	20 26 49·64	6	150 16 43·3	M
10	7·9	26 49·67	...	16 43·1	M
831 *Anon.*					
Aug. 2	...	20 26 51·03	5	121 11 6·4	R
Sep. 9	8·2	26 51·02	...	11 5·3	M
832 *R. P. L.* 143.					
Sep. 11	...	20 28 34·11	2	5 16 50·6	M
833 15 *Capricorni* υ					
Sep. 3	5·4	20 32 45·74	...	108 35 14·9	M
5	5·6	32 45·76	...	35 14·9	M
834 50 *Cygni a, Deneb.*					
Sep. 4	...	20 37 4·05	...	45 10 34·5	M
13	...	37 4·12	...	10 33·6	M
835 *W. B. E.* XX. 935.					
Sep. 6	8·9	20 37 9·92	...	73 21 21·6	M
7	8·9	37 9·92	...	21 22·3	M
836 *Anon.*					
Sep. 28	9·1	20 38 44·41	...	143 1 35·1	M
837 *O. A. S.* 20841.					
Sep. 11	8·0	20 39 41·61	...	116 52 54·2	M
17	8·0	39 41·67	6	52 55·1	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
838		32 *Vulpeculæ.*			
Sep. 2	...	20 49 6·29	...	62 25 41·9	M
4	...	49 6·29	...	25 41·9	M
5	...	49 6·35	4	25 40·5	M
7	...	49 6·29	...	25 41·5	M
9	...	49 6·27	...	25 39·6	M
10	...	49 6·27	...	25 39·9	M
839		*Anon.*			
Sep. 7	9·6	20 59 12·96	...	148 50 42·5	M
28	9·6	59 12·87	...	50 46·0	M
840		*Anon.*			
Sep. 11	8·6	21 1 2·23	...	120 2 51·8	M
17	8·9	1 2·29	...	2 52·9	M
841		61 *Cygni—2nd.*			
Oct. 9	6·8	21 1 11·18	...	51 52 51·3	R
842		*Anon.*			
Sep. 13	9·0	21 1 40·52	...	119 58 30·4	M
843		13 *Aquarii* ν			
Sep. 10	...	21 2 37·24	...	101 53 18·1	M
844		*Anon.*			
Sep. 9	9·4	21 11 31·86	...	129 29 56·2	M
845		*Anon.*			
Sep. 11	9·5	21 14 18·33	5	128 58 21·4	M
28	9·4	14 18·27	6	58 21·6	M
846		32 *Capricorni* ι			
Sep. 10	...	21 15 7·02	...	107 22 41·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
847		22 *Aquarii* β			
Sep. 3	...	21 24 49·12	...	96 7 57·9	M
4	...	24 49·16	...	7 58·7	M
6	...	24 49·15	...	7 58·4	M
28	...	24 49·13	...	7 58·7	M
Oct. 9	...	24 49·10	...	7 59·8	R
848		*Anon.*			
Aug. 28	9·5	21 27 35·15	...	132 36 13·7	R
849		*Anon.*			
Sep. 2	8·5	21 30 0·33	...	134 0 22·6	M
850		*Anon.*			
Sep. 17	8·7	21 30 19·27	...	98 23 17·3	M
851		8 *Pegasi* ε			
Sep. 4	...	21 37 53·96	...	80 42 38·1	M
6	...	37 53·05	...	42 38·2	M
27	...	37 53·04	...	42 38·2	M
28	...	37 53·02	...	42 38·0	M
Oct. 2	...	37 53·89	...	42 40·7	R
9	...	37 53·98	...	42 39·1	R
17	...	37 53·91	...	42 39·0	R
852		51 *Capricorni* μ			
Sep. 10	5·0	21 46 19·06	...	104 9 10·2	M
853		16 *Pegasi.*			
Sep. 2	...	21 47 14·28	...	64 40 37·4	M
5	...	47 14·20	...	40 35·4	M
6	...	47 14·28	...	40 35·1	M
7	...	47 14·26	...	40 35·1	M
9	...	47 14·36	...	40 33·7	M
11	...	47 14·22	...	40 35·7	M
17	...	47 14·29	...	40 36·3	M
27	...	47 14·19	...	40 35·6	M
Oct. 2	...	47 14·37	...	40 37·7	R
9	...	47 14·34	...	40 36·3	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
854		*Anon.*			
Sep. 4	9·5	21 53 17·55	...	136 35 56·6	M
855		*ε Indi.*			
Oct. 4	6·0	21 53 33·42	...	147 18 39·7	R
9	...	53 33·43	...	18 39·5	R
856		31 *Aquarii o*			
Aug. 31	...	21 56 41·46	...	92 46 21·4	R
Sep. 6	...	56 41·50	...	46 20·9	M
7	...	56 41·60	...	46 21·5	M
857		32 *Aquarii.*			
Sep. 5	5·9	21 58 12·47	...	91 31 28·3	M
9	5·7	58 12·48	...	31 27·2	M
858		34 *Aquarii a*			
Sep. 2	...	21 59 12·48	...	90 56 26·7	M
10	...	59 12·61	...	56 26·1	M
27	...	59 12·69	...	56 26·6	M
Oct. 2	...	59 12·53	...	56 30·9	R
859		*Anon.*			
Sep. 28	8·0	22 0 26·14	...	115 0 56·0	M
860		*Anon.*			
Oct. 9	10·0	22 2 27·31	...	114 57 30·8	R
861		*Anon.*			
Oct. 4	10·0	22 2 28·28	6	114 52 27·0	R
862		*O. A. S.* 22014.			
Oct. 7	...	22 7 37·52	5	114 38 18·8	R
863		43 *Aquarii θ*			
Sep. 5	...	22 10 4·69	...	98 25 9·9	M
6	...	10 4·70	...	25 10·4	M
7	...	10 4·66	...	25 10·5	M
9	...	10 4·57	...	25 8·2	M
Oct. 17	...	10 4·73	...	25 10·8	R
864		*O. A. S.* 22070.			
Sep. 27	8·0	22 12 20·26	...	114 26 35·3	M
Oct. 9	9·2	12 20·43	...	26 37·2	R
865		*Anon.*			
Sep. 28	9·6	22 19 32·46	...	88 40 24·8	M
Oct. 28	10·2	19 32·79	4	40 23·8	R
866		*Anon.*			
Oct. 4	8·9	22 19 53·38	...	88 40 53·2	R
7	...	19 53·40	6	40 51·8	R
17	9·2	19 53·28	5	40 51·1	R
867		55 *Aquarii ζ*			
Aug. 31	...	22 22 14·41	...	90 40 30·0	R
Sep. 4	...	22 14·26	...	40 26·6	M
7	9·2	22 14·27	...	40 25·2	M
868		*R. P. L.* 150—*s.p.*			
Mar. 12	...	22 23 8·88	2	4 32 18·1	M
Apl. 4	...	23 9·05	2	32 18·0	M
869		*O. A. S.* 22193.			
Oct. 9	7·2	22 23 40·62	...	116 43 36·8	R
Nov. 2	7·4	23 46·78	...	43 36·8	M
870		*Anon.*			
Sep. 9	8·0	22 24 10·65	...	130 38 2·9	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
871		62 *Aquarii* η			
Oct. 4	...	22 28 46·51	...	90 46 36·4	R
7	...	28 46·61	...	46 35·9	R
21	...	28 46·51	...	46 36·3	R
22	...	28 46·68	...	46 37·1	R
23	...	28 46·68	...	46 36·7	R
Nov. 1	...	28 46·67	...	46 36·1	M
872		*T Aquarii, Var.* 3.			
Oct. 31	10·4	22 29 10·64	5	98 15 58·8	R
873		63 *Aquarii* κ			
Aug. 31	...	22 30 7·56	...	94 53 14·7	R
874		42 *Pegasi* ζ			
Sep. 7	...	22 35 4·72	...	79 50 9·9	M
9	...	35 4·72	...	50 8·5	M
Oct. 4	...	35 4·70	...	50 11·8	R
22	...	35 4·68	...	50 10·9	R
23	...	35 4·67	...	50 10·2	R
26	...	35 4·66	...	50 11·3	R
875		67 *Aquarii.*			
Sep 4	...	22 36 33·33	...	97 37 56·3	M
13	...	36 33·27	...	37 56·1	M
Oct. 9	7·0	36 33·20	...	37 56·9	R
876		71 *Aquarii* τ^2			
Oct. 7	...	22 42 48·73	...	104 16 3·1	R
21	...	42 48·74	...	16 3·6	R
877		*Anon.*			
Oct. 29	10·0	22 44 35·08	...	135 34 41·5	R
878		73 *Aquarii* λ			
Oct. 23	...	22 45 56·07	...	98 15 37·7	R
25	...	45 56·19	...	15 36·6	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
879		74 *Aquarii.*			
Oct. 26	...	22 46 44·30	...	102 17 50·1	R
Nov. 7	5·8	46 44·36	...	17 48·3	M
880		*O. A. S.* 22487.			
Oct. 9	9·0	22 48 14·40	...	114 39 0·1	R
881		*O. A. S.* 22497.			
Oct. 21	9·3	22 49 18·72	...	114 49 59·0	R
Nov. 6	8·2	49 18·71	6	49 58·1	M
882		24 *Piscis Australis a, Fomalhaut.*			
Sep. 27	...	22 50 34·29	...	120 18 0·8	M
Oct. 4	...	50 34·43	...	18 1·4	R
7	...	50 34·43	...	18 0·8	R
883		*Anon.*			
Oct. 23	10·5	22 55 5·85	4	101 40 31·3	R
28	10·5	55 5·81	3	40 31·0	R
884		53 *Pegasi* β, *Var.* 1.			
Oct. 26	...	22 57 34·21	...	62 36 41·3	R
30	...	57 34·23	...	36 39·3	R
Nov. 2	...	57 34·29	6	36 41·6	M
8	...	57 34·17	...	36 39·8	M
885		*Anon.*			
Oct. 29	10·0	22 57 34·82	...	57 9 29·9	R
886		54 *Pegasi a, Markab.*			
Sep. 28	...	22 58 23·14	...	75 28 58·6	M
Oct. 7	...	58 23·04	...	28 59·6	R
17	...	58 23·10	...	28 58·8	R
22	...	58 23·07	...	28 58·8	R
25	...	58 23·13	...	28 59·9	R

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
887	91 *Aquarii* ψ^1				
Oct. 17	...	23 9 11·10	...	99 47 5·8	R
23	...	9 11·03	...	47 6·4	R
26	...	9 11·08	...	47 6·5	R
888	6 *Piscium* γ				
Oct 21	...	23 10 31·71	...	87 25 1·2	R
Nov. 1	...	10 31·77	...	25 0·2	M
5	...	10 31·77	...	25 0·0	M
889	*Anon.*				
Sep. 28	8·0	23 11 3·65	6	150 41 58·3	M
Oct. 29	8·3	11 3·37	...	41 57·9	R
31	8·0	11 3·37	...	41 58·5	R
890	93 *Aquarii* ψ^2				
Nov. 6	...	23 11 15·05	...	99 52 51·0	M
11	...	11 15·10	...	52 52·4	M
891	*Anon.*				
Oct. 30	9·2	23 11 34·25	6	151 13 6·9	R
892	*Anon.*				
Nov. 7	9·1	23 12 4·16	5	129 55 17·8	M
893	96 *Aquarii.*				
Sep. 27	...	23 12 45·69	...	95 49 24·2	M
894	*O. A. S.* 22814.				
Oct. 17	6·5	23 17 22·94	...	109 23 32·3	R
26	...	17 22·95	...	23 34·3	R
31	6·5	17 22·78	...	23 33·0	R
Nov. 2	5·9	17 23·10	...	23 33·4	M
8	6·0	17 23·12	5	23 33·1	M
895	*Anon.*				
Oct. 29	10·1	23 18 41·07	...	131 5 52·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
896	*Anon.*				
Oct. 21	10·5	23 20 8·68	4	109 16 40·9	R
28	10·2	20 8·49	4	16 44·8	R
30	10·0	20 8·55	...	16 42·1	R
897	8 *Piscium* κ				
Nov. 5	...	23 20 22·23	...	89 26 41·9	M
6	...	20 22·27	...	26 41·4	M
898	10 *Piscium* θ				
Oct. 23	...	23 21 28·59	...	84 19 24·7	R
Nov. 1	...	21 28·49	...	19 25·8	M
899	*Anon.*				
Sep. 27	...	23 26 2·40	...	108 31 5·6	M
Oct. 17	9·0	26 2·43	6	31 5·3	R
29	9·0	26 2·38	5	31 5·4	R
Nov. 2	8·5	26 2·53	5	31 6·1	M
7	8·0	26 2·34	...	31 6·2	M
900	*Anon.*				
Oct. 10	9·0	23 26 10·78	...	108 45 29·1	R
901	*R. P. L.* 158—*s.p.*				
Mar. 21	...	23 27 48·87	2	3 23 55·4	M
902	*Anon.*				
Nov. 8	9·0	23 30 6·33	5	130 4 26·8	M
903	17 *Piscium* ι				
Sep. 28	...	23 33 22·02	...	85 4 1·5	M
Oct. 10	...	33 21·94	6	4 1·5	R
23	...	33 21·94	...	4 2·4	R
26	...	33 21·91	...	4 5·6	R
28	...	33 21·99	...	4 1·3	R
Nov. 5	...	33 21·88	...	4 1·0	M
6	...	33 22·08	...	4 0·9	M
11	...	33 22·06	...	4 1·6	M

Separate Results of Madras Meridian Circle Observations in 1872.

Number and Date.	Magnitude.	Mean Right Ascension 1872. h. m. s.	No. of Wires.	Mean Polar Distance 1872. ° ′ ″	Observer.
904		*Anon.*			
Oct. 29	10·3	23 35 28·32	5	107 46 33·2	R
905		18 *Piscium* λ			
Nov. 12	5·5	23 35 30·93	...	88 55 27·6	M
906		*Anon.*			
Oct. 17	10·0	23 35 37·23	6	107 46 47·7	R
907		*Anon.*			
Oct. 30	10·0	23 35 52·83	5	107 51 48·1	R
908		*R Aquarii, Var.* 1.			
Oct. 31	9·8	23 37 11·68	...	105 59 39·9	R
909		*Sculptoris* δ			
Oct. 10	...	23 42 15·36	...	118 50 19·0	R
21	...	42 15·46	...	50 17·5	R
910		21 *Piscium.*			
Sep. 28	6·0	23 42 54·25	...	89 38 3·9	M
Nov. 2	6·2	42 54·35	...	38 7·7	M
7	6·0	42 54·28	...	38 5·3	M
20	6·0	42 54·16	...	38 3·7	M
911		*Anon.*			
Oct. 30	9·0	23 43 12·29	...	129 41 12·1	R
912		22 *Piscium.*			
Nov. 1	6·0	23 45 24·63	...	87 46 52·0	M
5	5·9	45 24·69	...	46 52·5	M
11	6·0	45 24·66	...	46 52·6	M
12	6·0	45 24·71	...	46 51·6	M
913		*Anon.*			
Oct. 28	9·7	23 47 56·69	...	150 43 12·1	R
31	9·3	47 56·58	...	43 16·8	R
914		*Anon.*			
Nov. 2	8·3	23 50 22·87	6	148 50 45·0	M
915		28 *Piscium* ω			
Oct. 10	...	23 52 44·28	...	83 50 44·0	R
26	...	52 44·41	...	50 45·0	R
30	...	52 44·31	...	50 43·0	R
Nov. 8	...	52 44·24	...	50 43·3	M
15	...	52 44·41	5	50 43·1	M
16	...	52 44·38	...	50 43·2	M
916		29 *Piscium.*			
Nov. 1	5·7	23 55 15·71	...	93 44 27·2	M
11	5·9	55 15·86	...	44 25·3	M
12	5·8	55 15·85	...	44 24·5	M
917		33 *Piscium.*			
Oct. 26	...	23 58 46·97	5	96 25 26·1	R
Nov. 5	...	58 47·06	...	25 24·6	M
918		*Anon.*			
Oct. 10	9·5	23 58 59·96	5	125 50 35·9	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1872

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
1	Lalande 47303	6·5	5	0	1	14·35	113	13	13·6	5	0·86
2	21 Androm. α (*Alpherat*)...	2·1	...	0	1	46·44	61	36	59·9	5	0·83
3	... ...	9·2	1	0	6	35·71	131	5	38·7	1	0·90
4	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	38·71	75	31	42·4	9	0·84
5	... ...	9·0	2	0	17	12·29	26	24	36·4	2	0·84
6	R Andromedæ, Var. 1 ...	7·5	2	0	17	16·36	52	7	53·6	2	0·79
7	O. A. N. 317	8·7	3	0	18	2·93	26	4	14·6	3	0·85
47·28 8	... ...	9·0	1	0	18	47·28	26	51	23·6	1	0·83
9	45 Piscium	6·0	2	0	19	6·01	83	1	0·5	2	0·86
10	12 Ceti	6·2	...	0	23	30·42	94	39	54·2	5	0·84
11	... ...	8·3	...	0	27	7·33	144	51	42·0	1	0·76
12	13 Ceti	5·9	1	0	28	39·69	94	17	53·4	1	0·86
13	Taylor 184	6·0	2	0	34	11·25	95	3	17·2	2	0·85
14	W. B. E. 0·585	8·9	4	0	34	59·15	94	56	8·7	4	0·86
15	16 Ceti β	2·1	...	0	37	9·78	108	41	23·6	10	0·84
16	58 Piscium	5·7	...	0	40	20·93	78	43	29·5	1	0·77
17	... ...	9·7	1	0	49	15·22	153	47	12·1	1	0·92
18	2 Ursæ Minoris	4·5	...	0	51	39·34	4	25	54·4	1	0·20
19	70 Piscium	6·2	4	0	55	27·56	82	45	0·4	4	0·86
20	71 Piscium ε	4·5	...	0	56	18·05	82	47	58·2	6	0·86
21	... ...	8·0	1	1	3	28·09	150	13	43·4	1	0·90
22	... ...	8·9	1	1	4	22·76	18	32	17·2	1	0·86
23	... ...	8·2	2	1	7	44·60	152	57	31·9	2	0·89
24	... ...	7·3	1	1	9	23·45	18	16	25·7	1	0·92
25	... ...	9·3	1	1	10	33·46	81	47	13·0	1	0·89
26	1 Urs. Min. α (*Polaris*) ...	2·2	...	1	11	57·19	1	22	23·9	14	0·53
27	44 Ceti	8·0	1	1	17	36·24	98	40	26·3	1	0·81
28	45 Ceti θ^1	3·8	...	1	17	37·60	98	50	41·0	4	0·90
29	99 Piscium η	3·7	...	1	24	38·09	75	18	54·3	5	0·88
30	Taylor 496	8·4	2	1	26	1·29	140	33	40·7	2	0·83
31	... ...	8·4	1	1	26	2·54	150	19	11·9	1	0·89
32	102 Piscium π	6·0	2	1	30	18·83	78	30	49·6	2	0·87
33	α Eridani (*Achernar*) ...	1·0	...	1	32	56·95	147	53	16·8	2	0·88
34	106 Piscium ν	4·7	...	1	34	46·31	85	9	39·6	6	0·74
35	... ...	8·7	1	1	38	49·97	152	0	28·0	1	0·91

1.—Comparison star for Egiria in 1862.
5—7—8.—Observed for map of Gemma's Nova of 1572.
22—24.—Observed for map of S Cassiopeæ, Var. 2.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
1	Lalande 47303 ...	+ 3·0690	− 0·0108	...	− 20·054	+ 0·012	...	...
2	21 Andromedæ α ...	+ 3·0778	+ 0·0182	+ 0·010	− 20·054	+ 0·013	+ 0·16	3215
3	... ...	+ 3·0387	− 0·0233	...	− 20·047	+ 0·021	...	...
4	88 Pegasi γ (*Algenib*)	+ 3·0821	+ 0·0100	− 0·001	− 20·045	+ 0·022	+ 0·01	1
5	... ...	+ 3·2741	+ 0·0704	...	− 19·998	+ 0·044	...	...
6	R Androm., Var. 1 ...	+ 3·1505	+ 0·0271	...	− 19·997	+ 0·043	...	...
7	O. A. N. 317 ...	+ 3·2871	+ 0·0723	...	− 19·992	+ 0·047	...	...
8	... ...	+ 3·2884	+ 0·0697	...	− 19·987	+ 0·048	...	...
9	45 Piscium	+ 3·0859	+ 0·0066	+ 0·000	− 19·985	+ 0·046	+ 0·05	26
10	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·950	+ 0·055	+ 0·01	38
11	... ...	+ 2·8480	− 0·0325	...	− 19·914	+ 0·058	...	...
12	13 Ceti	+ 3·0597	+ 0·0014	+ 0·027	− 19·897	+ 0·064	+ 0·02	50
13	Taylor 184	+ 3·0546	+ 0·0012	...	− 19·832	+ 0·075	...	...
14	W. B. E. 0·585 ...	+ 3·0546	+ 0·0013	...	− 19·821	+ 0·078	...	...
15	16 Ceti β	+ 2·9991	− 0·0055	+ 0·015	− 19·791	+ 0·080	− 0·03	70
16	58 Piscium	+ 3·1189	+ 0·0101	+ 0·002	− 19·745	+ 0·087	+ 0·01	76
17	... ...	+ 2·4931	− 0·0323	...	− 19·593	+ 0·085	...	...
18	2 Ursæ Minoris ...	+ 6·9272	+ 1·3216	...	− 19·547	+ 0·234	...	...
19	70 Piscium	+ 3·1130	+ 0·0086	− 0·002	− 19·470	+ 0·116	− 0·07	110
20	71 Piscium ε	+ 3·1132	+ 0·0087	− 0·007	− 19·453	+ 0·119	− 0·04	113
21	... ...	+ 2·4333	− 0·0237	...	− 19·291	+ 0·105	...	...
22	... ...	+ 4·1774	+ 0·1517	...	− 19·268	+ 0·177	...	...
23	... ...	+ 2·3092	− 0·0225	...	− 19·185	+ 0·106	...	...
24	... ...	+ 4·2793	+ 0·1510	...	− 19·142	+ 0·194	...	...
25	... ...	+ 3·1307	+ 0·0099	...	− 19·111	+ 0·146	...	...
26	1 Urs. Min. α (*Polaris*)	+ 20·2026	+ 14·4666	+ 0·109	− 19·074	+ 0·922	+ 0·00	102
27	44 Ceti	+ 3·0043	+ 0·0019	+ 0·008	− 18·916	+ 0·154	+ 0·06	183
28	45 Ceti θ^1	+ 3·0030	+ 0·0018	− 0·007	− 18·916	+ 0·154	+ 0·20	184
29	99 Piscium η... ...	+ 3·1986	+ 0·0141	− 0·000	− 18·702	+ 0·177	+ 0·00	203
30	Taylor 496	+ 2·4768	− 0·0141	...	− 18·662	+ 0·140	...	...
31	... ...	+ 2·2121	− 0·0148	...	− 18·657	+ 0·126	...	...
32	102 Piscium π ...	+ 3·1766	+ 0·0125	− 0·006	− 18·517	+ 0·185	− 0·05	214
33	α Eridani (*Achernar*)..	+ 2·2317	− 0·0128	+ 0·008	− 18·428	+ 0·137	+ 0·07	Stone
34	106 Piscium ν ...	+ 3·1176	+ 0·0091	− 0·003	− 18·365	+ 0·191	− 0·01	228
35	... ...	+ 2·0209	− 0·0089	...	− 18·219	+ 0·131	...	...

33.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	... ...	9·3	1	1	40	10·69	149	24	56·1	1	0·92
37	... ...	...	...	1	40	43·47	128	34	35·2	1	0·81
38	... ...	9·7	...	1	46	26·57	148	55	34·2	1	0·90
39	6 Arietis β	2·8	...	1	47	34·30	69	49	8·2	9	0·70
40	V Piscium, Var. 5 ...	8·0	2	1	47	36·90	81	51	0·1	3	0·93
41	Bonn +3°.266	10·0	1	1	49	49·35	86	43	56·6	1	0·94
42	8 Arietis ι	6·0	2	1	50	21·54	72	48	31·3	3	0·87
43	W. B. E. I. 892	8·9	1	1	51	21·40	86	57	18·5	1	0·83
44	... ...	9·1	2	1	52	35·08	145	46	2·8	2	0·98
45	... ...	9·6	2	1	53	13·50	151	20	32·5	2	0·94
46	... ...	8·5	1	1	56	27·16	129	56	11·6	1	0·92
47	... ...	9·3	1	1	56	27·44	129	24	54·5	1	0·83
48	... ...	9·0	2	1	57	52·86	87	33	14·1	2	0·88
49	13 Arietis α	2·0	...	1	59	57·57	67	8	38·9	5	0·71
50	... ...	9·6	2	2	1	18·51	148	45	20·8	2	0·94
51	17 Arietis η	5·8	3	2	5	38·16	69	23	30·2	3	0·88
52	... ...	10·3	2	2	7	0·33	87	10	17·9	2	0·83
53	R Arietis, Var. 1	9·0	2	2	8	50·38	65	32	24·7	2	0·85
54	67 Ceti	5·5	...	2	10	35·98	97	0	47·8	6	0·62
55	22 Arietis θ	5·6	...	2	11	0·47	70	41	33·4	1	0·82
56	73 Ceti ξ^2	4·4	...	2	21	21·28	82	6	53·6	6	0·61
57	... ...	9·7	1	2	29	25·48	147	35	22·0	1	0·83
58	... ...	10·2	1	2	29	36·98	84	58	30·0	1	0·83
59	32 Arietis ν	6·0	2	2	31	33·06	68	35	33·5	2	0·86
60	86 Ceti γ	3·6	...	2	36	40·09	87	18	17·9	7	0·77
61	42 Arietis π	5·9	1	2	42	9·00	73	4	11·2	1	0·86
62	Lalande 5483	8·4	3	2	51	29·77	80	18	36·4	3	0·97
63	48 Arietis ϵ	5·8	1	2	51	53·63	69	10	24·6	1	0·87
64	Lalande 5558	8·4	2	2	53	54·68	80	15	55·9	2	0·95
65	92 Ceti α (*Menkar*) ...	2·7	...	2	55	35·36	86	24	50·3	6	0·76
66	25 Persei ρ, Var. 2 ...	Var.	...	2	56	58·75	51	39	27·7	1	0·86
67	26 Persei β, Var. 1 (*Algol*)	Var.	...	2	59	50·81	49	32	22·5	1	0·98
68	R. P. L. 33	5·9	...	3	2	24·70	5	33	0·1	1	0·43
69	57 Arietis δ	4·5	...	3	4	18·73	70	45	34·1	7	0·82
70	Taylor 1081	7·8	1	3	5	23·20	151	38	25·6	1	0·87

41—43.—Comparison stars for Sylvia in 1868.
48—52.—Comparison stars for Camilla in 1868.
61.—Comparison star for Mars in 1879.
62—64.—Comparison stars for Isis in 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	... ...	+ 2·1146	− 0·0100	...	− 18·169	+ 0·138	...	...
37	... ...	+ 2·6184	− 0·0081	...	− 18·148	+ 0·171	...	...
38	... ...	+ 2·0785	− 0·0082	...	− 17·931	+ 0·144	...	...
39	6 Arietis β	+ 3·2945	+ 0·0183	+ 0·005	− 17·886	+ 0·226	+ 0·10	252
40	V Piscium, Var. 5 ...	+ 3·1588	+ 0·0111	...	− 17·884	+ 0·216	...	...
41	Bonn +3°.266 ...	+ 3·1073	+ 0·0087	...	− 17·798	+ 0·217	...	...
42	8 Arietis ι	+ 3·2637	+ 0·0163	+ 0·001	− 17·774	+ 0·228	+ 0·02	262
43	W. B. E. I. 892 ...	+ 3·1053	+ 0·0087	...	− 17·733	+ 0·219	...	...
44	... ...	+ 2·1452	− 0·0077	...	− 17·683	+ 0·156	...	...
45	... ...	+ 1·9122	− 0·0040	...	− 17·657	+ 0·140	...	...
46	... ...	+ 2·5276	− 0·0065	...	− 17·521	+ 0·187	...	...
47	... ...	+ 2·5376	− 0·0064	...	− 17·521	+ 0·188	...	...
48	... ...	+ 3·1003	+ 0·0086	...	− 17·459	+ 0·230	...	...
49	13 Arietis α	+ 3·3539	+ 0·0203	+ 0·013	− 17·370	+ 0·252	+ 0·13	287
50	... ...	+ 1·9593	− 0·0036	...	− 17·311	+ 0·151	...	...
51	17 Arietis η	+ 3·3342	+ 0·0188	+ 0·009	− 17·116	+ 0·260	− 0·02	303
52	... ...	+ 3·1069	+ 0·0090	...	− 17·053	+ 0·246	...	...
53	R Arietis, Var. 1 ...	+ 3·3962	+ 0·0216	...	− 16·969	+ 0·270	...	...
54	67 Ceti	+ 2·9834	+ 0·0049	+ 0·004	− 16·885	+ 0·242	+ 0·11	321
55	22 Arietis θ	+ 3·3256	+ 0·0179	− 0·002	− 16·867	+ 0·269	− 0·01	320
56	73 Ceti ξ^2	+ 3·1793	+ 0·0117	+ 0·001	− 16·360	+ 0·276	+ 0·00	347
57	... ...	+ 1·7945	+ 0·0024	...	− 15·941	+ 0·166	...	...
58	... ...	+ 3·1436	+ 0·0103	...	− 15·930	+ 0·285	...	...
59	32 Arietis ν	+ 3·3941	+ 0·0193	− 0·002	− 15·827	+ 0·310	+ 0·01	367
60	86 Ceti γ	+ 3·1119	+ 0·0094	− 0·011	− 15·549	+ 0·294	+ 0·16	383
61	42 Arietis π	+ 3·3368	+ 0·0163	− 0·001	− 15·240	+ 0·322	− 0·00	397
62	Lalande 5483 ...	+ 3·2274	+ 0·0124	...	− 14·697	+ 0·327	...	...
63	48 Arietis ϵ	+ 3·4189	+ 0·0185	− 0·003	− 14·673	+ 0·345	+ 0·01	415
64	Lalande 5558... ...	+ 3·2299	+ 0·0124	...	− 14·553	+ 0·330	...	...
65	92 Ceti α (*Menkar*) ...	+ 3·1302	+ 0·0098	− 0·003	− 14·451	+ 0·323	+ 0·07	428
66	25 Persei ρ, Var. 2 ...	+ 3·8100	+ 0·0332	+ 0·010	− 14·367	+ 0·393	+ 0·09	429
67	26 Persei β, Var. 1 ...	+ 3·8780	+ 0·0356	− 0·002	− 14·190	+ 0·405	− 0·01	436
68	R. P. L. 33	+ 12·9080	+ 1·5959	...	− 14·031	+ 1·351	+ 0·12	Gr.
69	57 Arietis δ	+ 3·4083	+ 0·0171	+ 0·010	− 13·911	+ 0·364	− 0·01	446
70	Taylor 1081	+ 1·2801	+ 0·0156	...	− 13·844	+ 0·141	...	...

68—70.—Proper motions from "*Greenwich Catalogue* 1872."

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	58 Arietis ζ	4·9	...	3	7	32·82	69	25	56·0	1	0·99
72	... ...	9·2	1	3	12	40·98	130	8	45·7	1	0·01
73	... ...	8·7	1	3	12	52·08	129	25	57·5	1	0·94
74	... ...	8·0	1	3	13	38·94	125	38	5·9	1	0·98
75	61 Arietis τ^1	5·5	1	3	13	50·18	69	18	58·5	1	0·90
76	... ...	9·5	1	3	15	15·63	151	30	29·7	1	0·95
77	2 Tauri ξ	3·8	...	3	20	14·05	80	42	55·5	1	0·99
78	... ...	9·6	1	3	21	9·66	54	46	5·5	1	0·95
79	... ...	8·9	2	3	22	24·79	88	10	44·1	2	0·94
80	... ...	9·6	2	3	23	32·73	130	8	35·6	2	0·48
81	... ...	9·0	1	3	23	57·59	126	20	55·8	1	0·02
82	... ...	8·1	1	3	25	7·48	129	0	2·6	1	0·99
83	... ...	9·3	2	3	32	2·77	129	48	26·6	2	0·02
84	... ...	8·1	1	3	32	30·75	131	19	7·1	1	0·04
85	Lacaille 1166	9·0	1	3	33	19·50	129	11	37·6	2	0·94
86	... ...	8·8	2	3	33	36·87	127	41	34·3	2	0·93
87	Lacaille 1192	7·9	2	3	35	9·71	147	42	13·5	2	0·51
88	... ...	8·6	1	3	35	29·56	150	11	41·1	1	0·98
89	... ...	9·9	1	3	36	4·53	129	8	58·4	1	0·95
90	... ...	8·0	1	3	37	9·29	148	25	56·4	1	0·05
91	17 Tauri (*Electra*) ...	3·8	...	3	37	16·64	66	17	29·4	2	0·96
92	... ...	7·9	1	3	39	48·15	66	29	2·6	1	0·05
93	25 Tauri η (*Alcyone*) ...	3·0	...	3	39	52·67	66	17	34·8	5	0·76
94	... ...	8·0	1	3	41	6·21	147	1	36·9	1	0·02
95	Lacaille 1242	8·7	2	3	41	56·15	147	3	44·5	2	0·02
96	33 Tauri	...	...	3	49	28·51	67	11	55·4	4	0·70
97	... ...	9·7	1	3	49	55·58	129	13	16·5	1	0·01
98	... ...	8·8	1	3	50	6·17	129	10	45·9	1	0·05
99	34 Eridani γ^1	3·0	...	3	52	3·48	103	52	28·2	6	0·35
100	... ...	10·0	1	3	53	22·57	128	23	58·0	1	0·02
101	... ...	9·0	1	3	53	52·89	143	7	0·9	1	0·03
102	... ...	9·2	1	3	54	58·82	129	9	28·0	1	0·94
103	... ...	9·0	1	3	55	50·83	129	18	15·5	1	0·94
104	Taylor 1392	6·9	1	3	55	58·28	147	28	0·5	1	0·05
105	R. P. L. 35	6·7	...	3	57	8·73	4	47	11·2	2	0·98

78.—Observed for map of R Persei, Var. 3.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
71	58 Arietis ζ	+ 3·4384	+ 0·0176	− 0·003	− 13·706	+ 0·373	+ 0·07	451
72	... ...	+ 2·2318	+ 0·0012	...	− 13·374	+ 0·249	...	...
73	... ...	+ 2·2523	+ 0·0011	...	− 13·363	+ 0·251	...	...
74	... ...	+ 2·3553	+ 0·0011	...	− 13·312	+ 0·263	...	...
75	61 Arietis τ^1	+ 3·4501	+ 0·0175	+ 0·001	− 13·299	+ 0·382	+ 0·03	465
76	... ...	+ 1·2183	+ 0·0166	...	− 13·205	+ 0·140	...	...
77	2 Tauri ξ	+ 3·2397	+ 0·0117	+ 0·003	− 12·876	+ 0·368	+ 0·05	481
78	... ...	+ 3·7987	+ 0·0279	...	− 12·813	+ 0·431	...	...
79	... ...	+ 3·1050	+ 0·0089	...	− 12·729	+ 0·355	...	...
80	... ...	+ 2·1973	+ 0·0018	...	− 12·652	+ 0·254	...	...
81	... ...	+ 2·3076	+ 0·0016	...	− 12·624	+ 0·266	...	...
82	... ...	+ 2·2273	+ 0·0018	...	− 12·544	+ 0·258	...	...
83	... ...	+ 2·1821	+ 0·0023	...	− 12·066	+ 0·259	...	...
84	... ...	+ 2·1320	+ 0·0025	...	− 12·034	+ 0·250	...	...
85	Lacaille 1166 ...	+ 2·1977	+ 0·0023	...	− 11·976	+ 0·262	...	...
86	... ...	+ 2·2427	+ 0·0021	...	− 11·957	+ 0·268	...	...
87	Lacaille 1192 ...	+ 1·3656	+ 0·0120	...	− 11·848	+ 0·165	...	...
88	... ...	+ 1·1870	+ 0·0159	...	− 11·824	+ 0·145	...	...
89	... ...	+ 2·1913	+ 0·0024	...	− 11·783	+ 0·264	...	...
90	... ...	+ 1·3055	+ 0·0131	...	− 11·706	+ 0·160	...	...
91	17 Tauri (*Electra*) ...	+ 3·5491	+ 0·0178	− 0·000	− 11·697	+ 0·426	+ 0·04	509
92	... ...	+ 3·5485	+ 0·0176	...	− 11·516	+ 0·428	...	...
93	25 Tauri η (*Alcyone*)..	+ 3·5529	+ 0·0177	− 0·000	− 11·512	+ 0·430	+ 0·04	521
94	... ...	+ 1·3783	+ 0·0114	...	− 11·424	+ 0·170	...	...
95	Lacaille 1242 ...	+ 1·3717	+ 0·0114	...	− 11·364	+ 0·170	...	...
96	33 Tauri	+ 3·5455	+ 0·0164	+ 0·005	− 10·814	+ 0·441	+ 0·02	541
97	... ...	+ 2·1521	+ 0·0029	...	− 10·781	+ 0·270	...	...
98	... ...	+ 2·1530	+ 0·0029	...	− 10·768	+ 0·270	...	...
99	34 Eridani γ^1 ...	+ 2·7921	+ 0·0047	+ 0·003	− 10·624	+ 0·351	+ 0·11	546
100	... ...	+ 2·1702	+ 0·0030	...	− 10·525	+ 0·274	...	...
101	... ...	+ 1·5535	+ 0·0082	...	− 10·487	+ 0·198	...	...
102	... ...	+ 2·1415	+ 0·0031	...	− 10·406	+ 0·271	...	...
103	... ...	+ 2·1344	+ 0·0031	...	− 10·340	+ 0·271	...	...
104	Taylor 1392	+ 1·2757	+ 0·0126	...	− 10·332	+ 0·164	...	...
105	R. P. L. 35	+ 16·7991	+ 1·8121	+ 0·057	− 10·243	+ 2·111	− 0·05	Gr.

795.—Proper motions from "*Greenwich Catalogue* 1872."

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	... ...	9·0	1	4	5	8·60	150	4	18·2	1	0·02
107	38 Eridani o^1	4·1	...	4	5	37·07	97	10	24·3	11	0·53
108	Lacaille 1418	8·3	1	4	12	39·34	143	38	30·7	1	0·03
109	... ...	9·2	1	4	12	45·70	129	9	36·4	1	0·01
110	Lacaille 1425	5·8	2	4	13	7·36	152	30	52·6	2	0·03
111	... ...	9·9	1	4	15	31·41	129	6 5	41·0	1	0·06
112	... ...	9·0	1	4	15	56·95	128	38	39·6	1	0·02
113	62 Tauri	6·5	1	4	16	16·45	65	59	59·4	1	0·08
114	74 Tauri ϵ	3·7	...	4	21	8·63	71	6	21·8	10	0·22
115	R Tauri, Var. 2	8·0	2	4	21	16·92	80	7	30·9	2	0·99
116	... ...	9·8	1	4	27	20·58	150	32	56·3	1	0·02
117	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	34·64	73	45	3·0	9	0·04
118	... ...	9·0	1	4	31	54·18	142	58	35·5	1	0·08
119	Lacaille 1551—2nd ...	10·0	1	4	32	18·80	153	5	22·4	1	0·94
120	... ...	8·8	2	4	33	42·94	144	52	51·6	2	0·97
121	... ...	8·7	2	4	34	3·26	67	31	6·5	2	0·49
122	Lacaille 1566	7·0	1	4	35	54·02	148	27	28·8	1	0·06
123	... ...	10·0	1	4	36	49·19	64	18	14·1	1	0·02
124	... ...	10·2	1	4	39	18·49	153	15	1·5	1	0·93
125	3 Aurigæ ι	2·7	...	4	48	39·58	57	2	21·8	15	0·16
126	R Orionis, Var. 3... ...	9·6	2	4	52	4·11	82	4	1·9	3	0·95
127	... ...	8·7	1	4	52	35·13	129	39	4·7	1	0·04
128	7 Aurigæ ϵ, Var. 1 ...	Var.	...	4	52	47·01	46	22	8·2	1	0·93
129	... ...	9·1	2	4	52	47·28	150	37	8·3	2	0·07
130	2 Leporis ϵ	3·3	...	5	0	2·51	112	32	42·1	9	0·14
131	Taylor 1852	6·0	1	5	2	19·77	144	34	53·5	1	0·04
132	15 Orionis	6·4	1	5	2	22·45	74	34	7·8	2	0·09
133	... ...	8·7	2	5	6	17·47	131	45	6·6	2	0·06
134	13 Aurigæ α (*Capella*) ...	0·2	...	5	7	14·21	44	8	7·7	1	0·09
135	19 Orionis β (*Rigel*) ...	0·3	...	5	8	23·22	98	21	6·4	6	0·35
136	... ...	9·0	1	5	8	35·38	150	35	46·3	1	0·05
137	109 Tauri ν	6·2	2	5	11	35·31	68	2	19·1	2	0·06
138	... ...	9·1	3	5	13	17·44	75	4	25·6	3	0·10
139	... ...	9·5	3	5	14	51·45	75	5	56·6	3	0·10
140	112 Tauri β	1·9	...	5	18	12·12	61	30	12·6	8	0·15

[6]

119—124.—Observed for map of R Reticuli, Var. 1.
138.—Comparison star for Asia in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
106	... ...	+ 1·0356	+ 0·0165	...	− 9·630	+ 0·136	...	...
107	38 Eridani o^1 ...	+ 2·9244	+ 0·0058	− 0·001	− 9·598	+ 0·379	− 0·09	568
108	Lacaille 1418 ...	+ 1·4517	+ 0·0088	...	− 9·055	+ 0·193	...	...
109	... ...	+ 2·1004	+ 0·0035	...	− 9·046	+ 0·277	...	...
110	Lacaille 1425 ...	+ 0·7769	+ 0·0210	...	− 9·017	+ 0·105	...	...
111	... ...	+ 2·0962	+ 0·0035	...	− 8·829	+ 0·279	...	...
112	... ...	+ 2·1114	+ 0·0035	...	− 8·795	+ 0·281	...	...
113	62 Tauri	+ 3·6076	+ 0·0146	− 0·000	− 8·769	+ 5·477	+ 0·02	595
114	74 Tauri ϵ	+ 3·4878	+ 0·0120	+ 0·007	− 8·385	+ 0·466	+ 0·03	609
115	R Tauri, Var. 2 ...	+ 3·2837	+ 0·0092	...	− 8·374	+ 0·439	...	...
116	... ...	+ 0·8953	+ 0·0162	...	− 7·889	+ 0·123	...	...
117	87 Tauri α (*Aldebaran*)	+ 3·4312	+ 0·0105	+ 0·004	− 7·790	+ 0·464	+ 0·18	630
118	... ...	+ 1·4290	+ 0·0082	...	− 7·521	+ 0·196	...	...
119	Lacaille 1551—2nd...	+ 0·6284	+ 0·0205	...	− 7·487	+ 0·088	...	...
120	... ...	+ 1·3045	+ 0·0096	...	− 7·373	+ 0·180	...	...
121	... ...	+ 3·5870	+ 0·0122	...	− 7·346	+ 0·489	...	...
122	Lacaille 1566... ...	+ 1·0391	+ 0·0128	...	− 7·195	+ 0·144	...	...
123	... ...	+ 3·6736	+ 0·0130	...	− 7·121	+ 0·503	...	...
124	... ...	+ 0·5825	+ 0·0199	...	− 6·916	+ 0·083	...	...
125	3 Aurigæ ι	+ 3·8974	+ 0·0144	+ 0·001	− 6·142	+ 0·544	+ 0·00	677
126	R Orionis, Var. 3 ...	+ 3·2503	+ 0·0068	...	− 5·858	+ 0·456	...	...
127	... ...	+ 2·0118	+ 0·0038	...	− 5·815	+ 0·284	...	...
128	7 Aurigæ ϵ, Var. 1 ...	+ 4·2924	+ 0·0199	− 0·002	− 5·798	+ 0·602	+ 0·01	690
129	... ...	+ 0·7991	+ 0·0139	...	− 5·798	+ 0·113	...	...
130	2 Leporis ϵ	+ 2·5360	+ 0·0033	+ 0·000	− 5·187	+ 0·359	+ 0·07	713
131	Taylor 1852	+ 1·2514	+ 0·0077	...	− 4·993	+ 0·179	...	...
132	15 Orionis	+ 3·4297	+ 0·0074	− 0·001	− 4·989	+ 0·486	− 0·01	714
133	... ...	+ 1·9115	+ 0·0038	...	− 4·657	+ 0·273	...	...
134	13 Aurigæ α (*Capella*)	+ 4·4137	+ 0·0173	+ 0·008	− 4·577	+ 0·629	+ 0·42	722
135	19 Orionis β (*Rigel*)...	+ 2·8808	+ 0·0040	− 0·001	− 4·478	+ 0·412	− 0·01	736
136	... ...	+ 0·7593	+ 0·0117	...	− 4·461	+ 0·110	...	...
137	109 Tauri n	+ 3·5994	+ 0·0078	+ 0·001	− 4·205	+ 0·515	+ 0·08	741
138	... ...	+ 3·4211	+ 0·0063	...	− 4·059	+ 0·491	...	...
139	... ...	+ 3·4210	+ 0·0062	...	− 3·925	+ 0·491	...	...
140	112 Tauri β	+ 3·7860	+ 0·0082	+ 0·001	− 3·637	+ 0·545	+ 0·18	756

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
141	Taylor 1984	7·7	1	5	18	56·95	150	54	22·7	1	0·08
142	... ...	8·6	1	5	18	58·68	129	57	35·8	1	0·05
143	Taylor 1973	6·2	1	5	19	10·50	129	47	56·9	1	0·04
144	115 Tauri	6·0	3	5	19	42·18	72	9	2·0	3	0·39
145	R. P. L. 40	6·4	...	5	21	13·93	4	52	34·3	1	0·95
146	Lacaille 1854	7·8	1	5	21	51·84	137	12	28·3	1	0·05
147	λ Doradûs	6·5	1	5	24	27·21	149	1	19·4	1	0·09
148	... ...	9·0	1	5	25	26·92	130	35	0·1	1	0·10
149	34 Orionis δ, Var. 1 ...	Var.	...	5	25	28·03	90	23	46·3	4	0·03
150	... ...	9·2	...	5	25	36·10·37	155	50	55·4	1	0·12
151	11 Leporis α	2·7	...	5	27	5·07	107	54	57·2	4	0·53
152	Taylor 2057	7·3	1	5	28	5·93	151	55	18·1	1	0·04
153	46 Orionis ε	1·8	...	5	29	43·10	91	17	10·8	4	0·29
154	... ...	9·4	1	5	29	59·29	135	21	44·1	1	0·11
155	123 Tauri ζ	3·0	...	5	29	59·68	68	56	17·6	2	0·02
156	... ...	7·3	1	5	31	5·37	150	12	44·5	1	0·05
157	... ...	8·3	2	5	32	16·03	123	55	5·0	2	0·05
158	Lacaille 1916	7·9	2	5	32	40·74	121	8	21·9	2	0·09
159	126 Tauri	5·9	2	5	33	53·93	73	32	7·6	3	0·09
160	α Columbæ	2·7	...	5	35	0·90	124	8	38·3	3	0·35
161	... ...	8·7	1	5	36	51·17	135	48	24·7	1	0·10
162	... ...	9·0	1	5	36	59·31	129	57	37·0	1	0·11
163	... ...	8·5	1	5	39	37·42	79	0	1·1	1	0·10
164	Taylor 2145	6·3	2	5	40	3·39	135	53	35·8	2	0·06
57·51	165 Lacaille 1984	7·0	1	5	40	57·37·51	130	15	8·3	1	0·12
9·16	166 Lacaille 2010	9·0	1	5	42	9·06·16	146	58	9·8	1	0·11
	167	7·6	2	5	42	20·05	137	3	21·9	2	0·08
57·18	168	9·5	1	5	44	57·08·18	137	10	8·3	1	0·12
	169 54 Orionis χ^1	4·6	...	5	46	48·10	69	45	1·0	1	0·06
	170	8·8	1	5	47	15·02	135	46	45·2	1	0·08
	171 58 Orionis α, Var. 1 ...	Var.	...	5	48	14·48	82	37	8·6	6	0·21
	172	8·9	2	5	49	33·70	121	9	44·8	2	0·09
52·48	173	9·3	2	5	49	52·34·48	130	1	13·6	2	0·12
	174	9·5	1	5	49	58·28	63	50	5·0	1	0·11
	175 Lacaille 2073	7·5	2	5	50	43·74	137	12	34·3	2	0·08

163.—Comparison star for Sappho in 1866.
174.—Comparison star for Urania in 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
141	Taylor 1984	+ 0·7080	+ 0·0104	...	− 3·573	+ 0·103	...	...
142	... ...	+ 1·9699	+ 0·0034	...	− 3·570	+ 0·285	...	...
143	Taylor 1973	+ 1·9759	+ 0·0034	...	− 3·554	+ 0·286	...	...
144	115 Tauri	+ 3·4961	+ 0·0061	− 0·001	− 3·508	+ 0·504	+ 0·00	767
145	R. P. L. 40	+ 18·5197	+ 0·6402	...	− 3·376	+ 2·664	...	...
146	Lacaille 1854 ...	+ 1·6480	+ 0·0042	...	− 3·322	+ 0·238	...	...
147	λ Doradûs	+ 0·8720	+ 0·0081	...	− 3·098	+ 0·127	...	...
148	... ...	+ 1·9400	+ 0·0034	...	− 3·011	+ 0·281	...	...
149	34 Orionis δ, Var. 1...	+ 3·0630	+ 0·0038	− 0·001	− 3·010	+ 0·443	+ 0·01	787
150	... ...	+ 0·1241	+ 0·0143	...	− 2·998	+ 0·019	...	...
151	11 Leporis α	+ 2·6443	+ 0·0029	− 0·001	− 2·870	+ 0·383	− 0·01	796
152	Taylor 2057	+ 0·5903	+ 0·0096	...	− 2·786	+ 0·086	...	...
153	46 Orionis ε	+ 3·0424	+ 0·0035	− 0·002	− 2·642	+ 0·441	− 0·01	809
154	... ...	+ 1·7299	+ 0·0037	...	− 2·618	+ 0·251	...	...
155	123 Tauri ζ	+ 3·5827	+ 0·0055	− 0·001	− 2·618	+ 0·519	+ 0·02	800
156	... ...	+ 0·7553	+ 0·0079	...	− 2·523	+ 0·110	...	...
157	... ...	+ 2·1798	+ 0·0029	...	− 2·421	+ 0·317	...	...
158	Lacaille 1916 ...	+ 2·2701	+ 0·0027	...	− 2·385	+ 0·330	...	...
159	126 Tauri	+ 3·4649	+ 0·0045	+ 0·000	− 2·280	+ 0·503	+ 0·01	817
160	α Columbæ	+ 2·1708	+ 0·0027	+ 0·005	− 2·182	+ 0·316	+ 0·03	Stone
161	... ...	+ 1·7040	+ 0·0035	...	− 2·022	+ 0·248	...	...
162	... ...	+ 1·9576	+ 0·0030	...	− 2·010	+ 0·285	...	...
163	... ...	+ 3·3311	+ 0·0036	...	− 1·781	+ 0·485	...	...
164	Taylor 2145	+ 1·6982	+ 0·0033	...	− 1·743	+ 0·248	...	...
165	Lacaille 1984... ...	+ 1·9443	+ 0·0030	...	− 1·664	+ 0·284	...	...
166	Lacaille 2010 ...	+ 1·0222	+ 0·0050	...	− 1·559	+ 0·150	...	...
167	... ...	+ 1·6400	+ 0·0034	...	− 1·547	+ 0·239	...	...
168	... ...	+ 1·6331	+ 0·0033	...	− 1·316	+ 0·239	...	...
169	54 Orionis χ^1 ...	+ 3·5047	+ 0·0034	− 0·015	− 1·154	+ 0·520	+ 0·10	856
170	... ...	+ 1·7005	+ 0·0030	...	− 1·115	+ 0·248	...	...
171	58 Orionis α	+ 3·2451	+ 0·0027	+ 0·001	− 1·028	+ 0·473	− 0·02	860
172	... .	+ 2·2644	+ 0·0024	...	− 0·913	+ 0·330	...	...
173	... ...	+ 1·9507	+ 0·0027	...	− 0·886	+ 0·284	...	...
174	... ...	+ 3·7284	+ 0·0031	...	− 0·876	+ 0·543	...	...
175	Lacaille 2073 ...	+ 1·6292	+ 0·0030	...	− 0·812	+ 0·237	...	...

160.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
176	... ...	9·5	1	5	52	1·76	140	36	33·8	1	0·14
177	... ...	9·8	2	5	52	26·61	141	46	1·9	2	0·13
178	... ...	9·2	1	5	52	56·28	129	32	28·1	1	0·12
179	... ...	7·9	1	5	53	38·07	141	40	5·3	1	0·05
180	R. P. L. 43	6·6	...	5	55	34·74	3	14	17·4	2	0·30
181	... ...	9·2	2	5	57	12·84	136	1	0·6	2	0·07
182	67 Orionis ν	4·4	...	6	0	15·88	75	13	6·4	4	0·11
183	... ...	8·8	2	6	2	23·99	153	44	42·8	2	0·10
184	... ...	9·6	2	6	4	6·33	150	5	30·3	2	0·12
185	... ...	7·7	1	6	4	38·25	128	2	40·0	1	0·09
186	... ...	8·6	2	6	4	46·96	136	49	44·5	2	0·12
187	... ...	9·2	1	6	6	4·44	77	51	33·2	1	0·10
188	... ...	9·2	2	6	6	44·41	121	29	29·1	2	0·13
189	7 Geminorum η	3·5	...	6	7	9·03	67	27	31·6	3	0·14
190	... ...	9·2	1	6	7	32·96	151	18	31·9	1	0·14
191	... ...	...	...	6	7	53·74	137	6	32·3	1	0·15
192	... ...	9·3	1	6	9	42·06	131	50	58·8	1	0·08
193	... ...	7·0	1	6	11	8·63	149	53	59·2	1	0·04
194	... ...	9·0	1	6	11	47·33	152	1	59·3	1	0·14
195	Lalande 12053	8·0	1	6	12	52·81	68	51	26·2	1	0·13
196	Lalande 12075	8·0	2	6	13	42·62	68	44	44·9	2	0·09
197	Lalande 12094	8·7	4	6	14	3·76	68	42	10·1	4	0·12
198	13 Geminorum μ	3·2	...	6	15	12·98	67	25	25·2	2	0·53
199	Taylor 2474	6·2	1	6	18	26·95	121	43	33·0	1	0·03
200	... ...	9·0	2	6	18	37·81	151	28	40·6	2	0·08
201	Taylor 2485	8·5	1	6	18	38·14	151	16	21·3	1	0·11
202	... ...	9·5	1	6	20	9·59	65	40	9·0	1	0·12
203	α Argûs (*Canopus*) ...	0·4	...	6	21	6·68	142	37	36·8	3	0·14
204	... ...	7·8	1	6	21	34·02	128	51	46·1	1	0·12
205	... ...	9·5	1	6	22	12·34	129	36	44·2	1	0·12
206	Lacaille 2321	7·6	1	6	23	32·87	153	21	4·0	1	0·10
207	Taylor 2524	8·0	2	6	23	42·77	131	3	20·9	2	0·09
208	... ...	9·2	1	6	27	34·93	152	28	11·3	1	0·11
209	... ...	9·2	1	6	27	44·38	128	46	18·6	1	0·12
210	... ...	9·5	1	6	28	0·84	131	5	38·1	1	0·12

187.—Comparison star for Sappho in 1865.
195—196—197.—Comparison stars for Ariadne in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	
176	... ...	+ 1·4449	+ 0·0031	...	− 0·697	+ 0·211	...	...
177	... ...	+ 1·3760	+ 0·0031	...	− 0·661	+ 0·201	...	...
178	... ...	+ 1·9690	+ 0·0026	...	− 0·617	+ 0·287	...	...
179	... ...	+ 1·3819	+ 0·0031	...	− 0·557	+ 0·201	...	...
180	R. P. L. 43	+ 26·6994	+ 0·1588	...	− 0·387	+ 3·892	...	...
181	... ...	+ 1·6871	+ 0·0027	...	− 0·244	+ 0·246	...	...
182	67 Orionis ν	+ 3·4249	+ 0·0017	− 0·000	+ 0·023	+ 0·500	+ 0·01	887
183	... ...	+ 0·3616	+ 0·0025	...	+ 0·209	+ 0·053	...	...
184	... ...	+ 0·7484	+ 0·0022	...	+ 0·359	+ 0·109	...	...
185	... ...	+ 2·0263	+ 0·0023	...	+ 0·406	+ 0·295	...	...
186	... ...	+ 1·6472	+ 0·0004	...	+ 0·418	+ 0·240	...	...
187	... ...	+ 3·3598	+ 0·0013	...	+ 0·530	+ 0·490	...	...
188	... ...	+ 2·2534	+ 0·0022	...	+ 0·590	+ 0·329	...	...
189	7 Geminorum η ...	+ 3·6268	+ 0·0007	− 0·005	+ 0·626	+ 0·529	+ 0·00	909
190	... ...	+ 0·6306	+ 0·0016	...	+ 0·660	+ 0·092	...	...
191	... ...	+ 1·6340	+ 0·0022	...	+ 0·690	+ 0·238	...	...
192	... ...	+ 1·8758	+ 0·0021	...	+ 0·849	+ 0·273	...	...
193	... ...	+ 0·7687	+ 0·0010	...	+ 0·975	+ 0·112	...	...
194	... ...	+ 0·5576	+ 0·0005	...	+ 1·032	+ 0·081	...	...
195	Lalande 12053 ...	+ 3·5884	+ 0·0002	...	+ 1·125	+ 0·523	...	...
196	Lalande 12075 ...	+ 3·5912	0·0000	...	+ 1·199	+ 0·522	...	...
197	Lalande 12094 ...	+ 3·5924	0·0000	...	+ 1·223	+ 0·522	...	...
198	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·330	+ 0·527	+ 0·10	929
199	Taylor 2474	+ 2·2482	+ 0·0020	...	+ 1·613	+ 0·326	...	...
200	... ...	+ 0·6146	− 0·0007	...	+ 1·628	+ 0·089	...	...
201	Taylor 2485	+ 0·6411	− 0·0007	...	+ 1·629	+ 0·092	...	...
202	... ...	+ 3·6744	− 0·0011	...	+ 1·761	+ 0·533	...	...
203	α Argûs (*Canopus*) ...	+ 1·3293	+ 0·0010	0·000	+ 1·845	+ 0·192	0·00	Stone
204	... ...	+ 1·9996	+ 0·0019	...	+ 1·884	+ 0·289	...	...
205	... ...	+ 1·9709	+ 0·0018	...	+ 1·940	+ 0·285	...	...
206	Lacaille 2321 ...	+ 0·4221	− 0·0028	...	+ 2·057	+ 0·060	...	...
207	Taylor 2524	+ 1·9140	+ 0·0018	...	+ 2·072	+ 0·277	...	...
208	... ...	+ 0·5257	− 0·0030	...	+ 2·407	+ 0·075	...	...
209	... ...	+ 2·0062	+ 0·0018	...	+ 2·421	+ 0·290	...	...
210	... ...	+ 1·9149	+ 0·0016	...	+ 2·446	+ 0·276	...	...

203.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.	Mean Polar Distance.	Observations.	Fraction of Year.
				h. m. s.	° ′ ″		
211	... ...	9·2	2	6 28 39·66·72	130 56 8·7	2	0·07
212	... ...	6·6	1	6 28 40·56	122 7 50·5	1	0·05
213	24 Geminorum γ	2·0	...	6 30 19·09	73 29 39·5	5	0·10
214	... ...	8·0	2	6 30 57·53	130 55 34·1	2	0·03
215	... ...	9·4	2	6 31 19·02 18·96	122 7 6·6	2	0·12
216	... ...	9·0	1	6 31 37·83	140 0 35·1	1	0·13
217	... ...	8·1	2	6 31 42·28	130 57 6·6	2	0·14
218	... ...	9·4	2	6 33 37·6476	152 27 28·7	2	0·13
219	... ...	8·8	2	6 34 9·33	130 54 42·9	2	0·09
220	Lacaille 2406	7·5	2	6 34 18·55	147 25 55·5	2	0·12
221	27 Geminorum ϵ	3·2	...	6 36 3·36	64 44 43·4	3	0·12
222	... ...	10·2	2	6 36 26·8713	62 6 16·3	2	0·12
223	Taylor 2652	6·9	1	6 36 38·12	151 25 16·4	1	0·05
224	... ...	9·6	2	6 37 41·77·84	153 25 58·9	2	0·14
225	... ...	10·0	1	6 37 7·91 56·74	153 21 4·3	1	0·17
226	Lacaille 2451	8·7	1	6 38 12·05	155 58 9·5	1	0·11
227	51 Cephei (*Hev.*)	5·3	...	6 39 44·54	2 45 44·7	4	0·04
228	... ...	9·3	1	6 40 32·24	154 14 0·2	1	0·13
229	... ...	9·4	2	6 40 37·10	151 59 20·1	2	0·15
230	W. B. N. VI. 1272 ...	9·0	1	6 42 37·44	70 39 46·1	1	0·10
231	... ...	10·2	2	6 43 21·49·55	130 38 43·4	2	0·13
232	... ...	9·8	1	6 45 19·08	106 33 16·1	1	0·10
233	... ...	10·5	2	6 50 52·84·90	75 18 2·6	2	0·11
234	... ...	9·5	1	6 52 51·86	152 54 58·5	1	0·14
235	21 Canis Majoris ϵ ...	1·5	...	6 53 35·7113	118 47 58·3	6	0·09
236	ζ[a] Geminorum, Var. 1 ...	Var.	...	6 56 30·81	69 14 41·4	1	0·14
237	... ...	9·3	1	6 56 37·30	129 18 0·6	1	0·16
238	Taylor 2825	8·9	2	6 56 58·12	150 55 18·7	2	0·15
239	... ...	9·0	2	6 57 32·32	69 5 32·3	2	0·15
240	23 Canis Majoris γ ...	4·1	...	6 57 57·93	105 26 46·0	2	0·08
241	Lalande 13707	8·4	2	6 58 35·18	67 7 20·6	2	0·07
242	... ...	9·4	2	6 58 52·20	66 56 45·4	2	0·14
243	W. B. N. VI. 1762 ...	9·2	1	6 58 54·11·07	70 55 31·3	1	0·17
244	R Geminorum, Var. 2 ...	8·1	2	6 59 38·85	67 6 5·8	2	0·13
245	... ...	8·0	1	7 0 5·03 4·82	129 43 46·2	1	0·17

230—243.—Comparison stars for Hestia in 1870.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
211	... ...	+ 1·9217	+ 0·0016	...	+ 2·501	+ 0·277	...	...
212	... ...	+ 2·2390	+ 0·0018	...	+ 2·502	+ 0·323	...	...
213	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·645	+ 0·500	+ 0·04	969
214	... ...	+ 1·9236	+ 0·0016	...	+ 2·701	+ 0·277	...	...
215	... ...	+ 2·2407	+ 0·0018	...	+ 2·731	+ 0·323	...	...
216	... ...	+ 1·4936	+ 0·0007	...	+ 2·759	+ 0·215	...	...
217	... ...	+ 1·9231	+ 0·0015	...	+ 2·765	+ 0·277	...	...
218	... ...	+ 0·5361	− 0·0043	...	+ 2·931	+ 0·076	...	...
219	... ...	+ 1·9265	+ 0·0015	...	+ 2·977	+ 0·277	...	...
220	Lacaille 2406 ...	+ 1·0024	− 0·0015	...	+ 2·991	+ 0·144	...	...
221	27 Geminorum ϵ ...	+ 3·6950	− 0·0035	− 0·002	+ 3·143	+ 0·531	+ 0·01	983
222	... ...	+ 3·7711	− 0·0040	...	+ 3·176	+ 0·542	...	...
223	Taylor 2652	+ 0·6492	− 0·0042	...	+ 3·192	+ 0·092	...	...
224	... ...	+ 0·4346	− 0·0061	...	+ 3·284	+ 0·061	...	...
225	... ...	+ 0·4446	− 0·0061	...	+ 3·305	+ 0·063	...	...
226	Lacaille 2451 ...	+ 0·1153	− 0·0092	...	+ 3·327	+ 0·016	...	...
227	51 Cephei (*Hev.*) ...	+ 30·3833	− 1·0936	...	+ 3·417	+ 4·365	...	...
228	... ...	+ 0·3458	− 0·0076	...	+ 3·528	+ 0·048	...	...
229	... ...	+ 0·5983	− 0·0053	...	+ 3·534	+ 0·084	...	...
230	W. B. N. VI. 1272 ...	+ 3·5332	− 0·0031	...	+ 3·708	+ 0·504	...	...
231	... ...	+ 1·0448	+ 0·0012	...	+ 3·772	+ 0·277	...	...
232	... ...	+ 2·6826	+ 0·0009	...	+ 3·940	+ 0·382	...	...
233	... ...	+ 3·4145	− 0·0031	...	+ 4·417	+ 0·484	...	...
234	... ...	+ 0·5271	− 0·0086	...	+ 4·585	+ 0·073	...	...
235	21 Can. Maj. ϵ ...	+ 2·3572	+ 0·0013	− 0·001	+ 4·647	+ 0·332	− 0·02	1023
236	ζ^2 Geminorum, Var. 1	+ 3·5636	− 0·0050	− 0·001	+ 4·895	+ 0·503	− 0·00	1024
237	... ...	+ 2·0112	+ 0·0012	...	+ 4·905	+ 0·282	...	...
238	Taylor 2825	+ 0·7420	− 0·0070	...	+ 4·933	+ 0·103	...	...
239	... ...	+ 3·5660	− 0·0052	...	+ 4·982	+ 0·502	...	...
240	23 Can. Maj. γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·019	+ 0·381	+ 0·00	1028
241	Lalande 13707 ...	+ 3·6181	− 0·0057	...	+ 5·070	+ 0·509	...	...
242	... ...	+ 3·6225	− 0·0058	...	+ 5·094	+ 0·509	...	...
243	W. B. N. VI. 1762 ...	+ 3·5194	− 0·0049	...	+ 5·098	+ 0·495	...	...
244	R Geminorum, Var. 2	+ 3·6179	− 0·0059	...	+ 5·160	+ 0·508	...	...
245	... ...	+ 1·9991	+ 0·0011	...	+ 5·198	+ 0·280	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
246	... ...	9·3	1	7	1	2·30	60	50	48·8	1	0·14
247	... ...	7·5	1	7	1	11·81	140	10	47·9	1	0·22
248	... ...	9·3	1	7	1	41·44	61	4	51·6	1	0·15
249	... ...	9·0	1	7	1	45·66·80	129	39	58·2	1	0·12
250	... ...	9·0	1	7	3	6·13	141	24	47·6	1	0·16
251	... ...	9·4	2	7	5	6·32	153	52	54·0	2	0·17
252	Taylor 2923	8·5	1	7	7	22·90	150	22	4·6	1	0·03
253	Lalande 14177	7·0	2	7	11	44·698	67	44	39·5	2	0·13
254	55 Geminorum δ	3·7	...	7	12	28·682	67	47	4·3	14	0·12
255	... ...	9·0	1	7	14	43·83	138	50	27·8	1	0·14
256	Taylor 3005	8·2	1	7	15	36·65	149	1	48·6	1	0·15
257	Lalande 14397	7·7	3	7	19	13·36	41	49	17·2	3	0·09
258	... ...	10·3	1	7	19	14·93·87	69	16	25·4	1	0·17
259	6 Canis Minoris	5·0	...	7	22	40·32	77	43	52·0	1	0·22
260	Bonn +48°. 1546... ...	10·0	2	7	24	8·742	42	1	45·7	2	0·16
261	... ...	9·8	1	7	25	0·1537	130	10	30·3	1	0·17
262	... ...	8·8	3	7	25	16·484	123	9	18·4	3	0·16
263	R. P. L. 45	7·1	...	7	25	18·67	0	59	58·2	1	0·68
264	... ...	8·3	1	7	25	43·17	129	19	4·3	1	0·09
265	... ...	7·7	1	7	26	16·91	142	6	54·2	1	0·15
266	66 Geminorum a^2 (*Castor*)	2·8	...	7	26	25·854	57	50	1·2	9	0·11
267	69 Geminorum υ	4·2	...	7	28	2·00	62	49	22·0	2	0·06
268	... ...	10·4	2	7	30	41·88	158	43	19·4	2	0·16
269	... ...	8·0	1	7	30	53·13	121	55	28·4	1	0·20
270	Taylor 3133	6·4	2	7	31	27·74	65	29	24·0	2	0·14
271	74 Geminorum *f*	5·2	...	7	32	5·04	72	2	11·3	2	0·17
272	... ...	9·0	1	7	32	10·63	129	44	58·1	1	0·09
273	10 Canis Minoris (*Procyon*)	0·5	...	7	32	36·04	84	26	57·1	6	0·10
274	... ...	7·6	2	7	32	36·08·20	129	54	19·9	2	0·13
275	Lacaille 2893	7·7	1	7	33	1·78·93	121	50	30·8	1	0·18
276	... ...	8·4	2	7	35	39·89·97	144	20	47·3	2	0·14
277	Taylor 3195	8.7	1	7	36	40·14	150	20	11·2	1	0·16
278	77 Geminorum κ	3·6	...	7	36	43·15	65	17	51·0	1	0·06
279	... ...	7·8	1	7	37	3·47	130	52	2·3	1	0·09
280	78 Gemin. β (*Pollux*) ...	1·1	...	7	37	28·83	61	40	2·2	7	0·13

246—248.—Comparison stars for Isis in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
246	... ...	+ 3·7917	− 0·0081	...	+ 5·278	+ 0·532	...	...
247	... ...	+ 1·5256	− 0·0007	...	+ 5·292	+ 0·213	...	...
248	... ...	+ 3·7842	− 0·0081	...	+ 5·334	+ 0·531	...	...
249	... ...	+ 2·0037	+ 0·0011	...	+ 5·340	+ 0·280	...	...
250	... ...	+ 1·4597	− 0·0013	...	+ 5·452	+ 0·203	...	...
251	... ...	+ 0·4546	− 0·0125	...	+ 5·620	+ 0·062	...	...
252	Taylor 2923	+ 0·8227	− 0·0077	...	+ 5·812	+ 0·113	...	...
253	Lalande 14177 ...	+ 3·5927	− 0·0071	...	+ 6·176	+ 0·496	...	...
254	55 Geminorum δ ...	+ 3·5911	− 0·0072	− 0·003	+ 6·237	+ 0·495	− 0·00	1062
255	... ...	+ 1·6234	− 0·0008	...	+ 6·423	+ 0·221	...	...
256	Taylor 3005	+ 0·9647	− 0·0071	...	+ 6·497	+ 0·130	...	...
257	Lalande 14397 ...	+ 4·4779	− 0·0245	...	+ 6·795	+ 0·611	...	...
258	... ...	+ 3·5482	− 0·0074	...	+ 6·797	+ 0·484	...	..
259	6 Canis Minoris ...	+ 3·3442	− 0·0052	− 0·001	+ 7·078	+ 0·453	+ 0·00	1085
260	Bonn +48°. 1546 ...	+ 4·4567	− 0·0256	...	+ 7·198	+ 0·605	...	...
261	... ...	+ 2·0202	+ 0·0009	...	+ 7·269	+ 0·272	...	...
262	... ...	+ 2·2586	+ 0·0011	...	+ 7·291	+ 0·304	...	...
263	R. P. L. 45	+ 74·4612	− 29·8625	− 0·323	+ 7·294	+ 10·070	− 0·01	Gr.
264	... ...	+ 2·0530	+ 0·0009	...	+ 7·327	+ 0·276	...	...
265	... ...	+ 1·4742	− 0·0024	...	+ 7·373	+ 0·197	...	...
266	66 Geminorum α^2 ...	+ 3·8539	− 0·0133	− 0·015	+ 7·386	+ 0·519	+ 0·08	1087
267	69 Geminorum ν ...	+ 3·7086	− 0·0110	− 0·002	+ 7·515	+ 0·499	+ 0·10	1094
268	... ...	− 0·0955	− 0·0309	...	+ 7·731	− 0·016	...	...
269	... ...	+ 2·3039	+ 0·0012	...	+ 7·746	+ 0·307	...	...
270	Taylor 3133	+ 3·6339	− 0·0102	...	+ 7·792	+ 0·487	...	...
271	74 Geminorum ζ ...	+ 3·4711	− 0·0078	− 0·002	+ 7·843	+ 0·463	− 0·02	1103
272	... ...	+ 2·0491	+ 0·0009	...	+ 7·850	+ 0·272	...	...
273	10 Can. Min. α ...	+ 3·1916	− 0·0041	− 0·047	+ 7·884	+ 0·425	+ 1·03	1106
274	... ...	+ 2·0441	+ 0·0008	...	+ 7·884	+ 0·271	...	...
275	Lacaille 2893 ...	+ 2·3094	+ 0·0012	...	+ 7·918	+ 0·307	...	...
276	... ...	+ 1·3644	− 0·0041	...	+ 8·130	+ 0·179	...	...
277	Taylor 3195	+ 0·9306	− 0·0105	...	+ 8·210	+ 0·120	...	...
278	77 Geminorum κ ...	+ 3·6333	− 0·0109	− 0·003	+ 8·215	+ 0·480	+ 0·06	1111
279	... ...	+ 2·0176	+ 0·0009	...	+ 8·241	+ 0·264	...	...
280	78 Geminorum β ...	+ 3·7288	− 0·0128	− 0·048	+ 8·275	+ 0·491	+ 0·05	1112

163.—Proper motions from "*Greenwich Catalogue* 1872."

Mean Positions of Stars for 1872, *January 1st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	m.	s.	°	′	″		
281	... ...	8·0	1	7	38	3·33	128	53	59·2	1	0·19
282	... ...	8·6	2	7	41	24·93	151	35	39·6	2	0·20
283	... ...	8·6	2	7	41	43·40	144	19	49·8	2	0·19
284	... ...	9·0	1	7	42	9·48	153	5	30·4	1	0·17
285	Lacaille 3013	7·6	2	7	43	41·29	142	1	54·5	2	0·14
286	Lacaille 3034	8·0	1	7	44	9·45	153	52	49·7	1	0·22
287	... ...	...	...	7	45	23·61	129	26	5·5	1	0·16
288	... ...	8·8	2	7	45	37·21	129	28	5·3	2	0·16
289	... ...	7·7	2	7	46	19·47	132	31	16·9	2	0·12
290	... ...	8·7	1	7	46	40·93	144	23	40·1	1	0·08
291	... ...	9·6	2	7	48	57·14	67	47	22·0	2	0·18
292	... ...	9·0	1	7	48	59·33	129	56	4·2	1	0·17
293	... ...	7·2	1	7	49	35·63	152	36	9·4	1	0·10
294	... ...	8·7	1	7	49	58·62	130	31	23·6	1	0·19
295	Taylor 3339	7·9	2	7	52	1·65	144	18	11·8	2	0·19
296	... ...	8·3	1	7	52	9·85	148	23	39·8	1	0·09
297	... ...	8·4	1	7	52	34·90	151	31	57·5	1	0·21
298	6 Cancri	5·0	...	7	55	39·21	61	50	57·8	13	0·14
299	Taylor 3380	8·0	3	7	55	59·63	144	11	53·8	3	0·18
300	... ...	9·4	1	7	56	48·32	129	22	37·5	1	0·21
301	12 Cancri	5·1	...	8	1	33·10	75	59	19·9	3	0·17
302	W. B. N. VII. 1684 ...	9·0	2	8	1	51·96	69	30	36·1	2	0·19
303	15 Argûs	2·9	...	8	2	5·54	113	56	13·4	12	0·15
304	14 Cancri ψ^2	5·8	...	8	2	44·15	64	6	24·6	1	0·22
305	... ...	8·3	1	8	5	35·88	130	46	46·4	1	0·09
306	... ...	9·8	1	8	5	46·79	77	38	57·1	1	0·16
307	... ...	9·1	1	8	5	53·02	77	26	22·0	1	0·09
308	... ...	9·3	1	8	5	54·40	128	40	11·4	1	0·16
309	... ...	9·4	1	8	9	34·21	77	28	55·5	1	0·19
310	... ...	9·8	1	8	10	14·34	150	48	9·1	1	0·22
311	W. B. N. VIII. 178 ...	9·4	1	8	10	22·70	74	17	39·8	1	0·21
312	... ...	9·0	1	8	11	29·91	152	5	58·0	1	0·10
313	Bonn +28°. 1585—2nd ...	9·5	2	8	12	13·48	61	7	52·1	2	0·18
314	19 Cancri λ	5·7	...	8	12	55·23	65	34	35·9	1	0·22
315	... ...	8·9	3	8	12	58·99	130	29	49·2	3	0·21

310.—Comparison star for Ariadne in 1863.
313.—Comparison star for Isis in 1870.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
281	... ...	+ 2·0907	+ 0·0010	...	+ 8·321	+ 0·274	...	...
282	... ...	+ 0·8383	− 0·0128	...	+ 8·587	+ 0·107	...	...
283	... ...	+ 1·3900	− 0·0041	...	+ 8·612	+ 0·179	...	...
284	... ...	+ 0·6953	− 0·0161	...	+ 8·646	+ 0·088	...	...
285	Lacaille 3013 ...	+ 1·5315	− 0·0026	...	+ 8·767	+ 0·197	...	...
286	Lacaille 3034 ...	+ 0·6222	− 0·0180	...	+ 8·803	+ 0·078	...	...
287	... ...	+ 2·0869	+ 0·0010	...	+ 8·900	+ 0·269	...	...
288	... ...	+ 2·0861	+ 0·0010	...	+ 8·918	+ 0·269	...	...
289	... ...	+ 1·9757	+ 0·0007	...	+ 8·974	+ 0·254	...	...
290	... ...	+ 1·4038	− 0·0042	...	+ 9·001	+ 0·179	...	...
291	... ...	+ 3·5576	− 0·0109	...	+ 9·178	+ 0·458	...	...
292	... ...	+ 2·0772	+ 0·0010	...	+ 9·182	+ 0·266	...	...
293	... ...	+ 0·7819	− 0·0153	...	+ 9·229	+ 0·098	...	...
294	... ...	+ 2·0584	+ 0·0010	...	+ 9·258	+ 0·262	...	...
295	Taylor 3339	+ 1·4294	− 0·0041	...	+ 9·417	+ 0·180	...	...
296	... ...	+ 1·1548	− 0·0083	...	+ 9·429	+ 0·145	...	...
297	... ...	+ 0·8978	− 0·0134	...	+ 9·460	+ 0·112	...	...
298	6 Cancri	+ 3·6983	− 0·0148	− 0·003	+ 9·696	+ 0·468	+ 0·04	1149
299	Taylor 3380	+ 1·4510	− 0·0040	...	+ 9·719	+ 0·181	...	...
300	... ...	+ 2·1144	+ 0·0013	...	+ 9·785	+ 0·265	...	...
301	12 Cancri	+ 3·3601	− 0·0083	− 0·001	+ 10·144	+ 0·419	+ 0·02	1165
302	W. B. N. VII. 1684...	+ 3·5028	− 0·0113	...	+ 10·169	+ 0·437	...	...
303	15 Argûs	+ 2·5609	+ 0·0009	− 0·008	+ 10·184	+ 0·318	− 0·06	1170
304	14 Cancri ψ^2... ...	+ 3·6304	− 0·0140	− 0·007	+ 10·235	+ 0·452	+ 0·35	1167
305	... ...	+ 2·0879	+ 0·0013	...	+ 10·448	+ 0·256	...	...
306	... ...	+ 3·3191	− 0·0080	...	+ 10·462	+ 0·410	...	...
307	... ...	+ 3·3263	− 0·0081	...	+ 10·470	+ 0·410	...	...
308	... ...	+ 2·1597	+ 0·0016	...	+ 10·471	+ 0·265	...	...
309	... ...	+ 3·3220	− 0·0082	...	+ 10·743	+ 0·405	...	...
310	... ...	+ 1·0558	− 0·0120	...	+ 10·793	+ 0·125	...	...
311	W. B. N. VIII. 78 ...	+ 3·3889	− 0·0096	...	+ 10·803	+ 0·412	...	...
312	... ...	+ 0·9516	− 0·0147	...	+ 10·886	+ 0·112	...	...
313	Bonn+28°. 1585—2nd	+ 3·6892	− 0·0169	...	+ 10·938	+ 0·446	...	...
314	19 Cancri λ	+ 3·5800	− 0·0142	− 0·002	+ 10·990	+ 0·431	+ 0·03	1182
315	... ...	+ 2·1173	+ 0·0016	...	+ 10·995	+ 0·253	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.	Mean Polar Distance.	Observations.	Fraction of Year.
				h. *m.* *s.*	° ′ ″		
316	... ...	8·9	2	8 12 59·06	130 36 43·8	2	0·20
317	... ...	9·7	1	8 18 55·29	151 2 14·5	1	0·22
318	Taylor 3599	7·0	1	8 20 28·91	144 54 18·5	1	0·09
319	... ...	8·4	3	8 21 11·40	153 19 40·5	3	0·17
320	Taylor 3607	6·0	1	8 21 27·39	144 56 57·1	1	0·09
321	... ...	8·2	1	8 21 47·15	131 43 8·7	1	0·10
322	Taylor 3620	7·8	1	8 23 27·87	130 49 18·8	1	0·10
323	... ...	7·8	1	8 23 32·29	144 56 29·9	1	0·14
324	31 Cancri θ	5·8	...	8 24 17·62	71 28 30·2	3	0·20
325	33 Cancri η	5·5	...	8 25 18·24	69 7 33·9	14	0·14
326	Taylor 3652	8·0	1	8 26 1·13	130 4 14·5	1	0·19
327	Lacaille 3393	7·9	1	8 26 6·79	149 41 45·4	1	0·19
328	... ...	8·0	1	8 26 18·89	144 59 22·4	1	0·22
329	... ...	9·1	1	8 26 42·68	130 32 4·9	1	0·20
330	W. B. N. VIII. 699 ...	8·0	1	8 29 58·57	70 41 16·7	1	0·16
331	... ...	9·3	1	8 31 30·03	129 47 5·1	1	0·10
332	43 Cancri γ	4·8	...	8 35 52·51	68 4 23·6	1	0·06
333	45 Cancri A^1	5·6	...	8 36 8·95	76 51 43·4	2	0·20
334	S Cancri, Var. 2	8·0	2	8 36 37·36	70 30 26·8	2	0·21
335	... ...	9·0	1	8 37 32·24	136 10 13·7	1	0·18
336	... ...	7·8	1	8 38 6·55	136 7 16·3	1	0·18
337	W. B. E. VIII. 991 ...	9·3	1	8 39 17·18	81 43 55·1	1	0·19
338	50 Cancri A^2	6·0	...	8 39 55·00	77 25 19·4	3	0·20
339	11 Hydræ ϵ	3·6	...	8 39 59·74	83 6 48·6	13	0·15
340	... ...	7·9	1	8 41 13·45	147 18 27·6	1	0·22
341	Lacaille 3534	7·9	2	8 42 35·18	129 19 51·3	2	0·22
342	*f* Velorum	7·0	2	8 46 13·07	136 3 7·0	2	0·09
343	... ...	8·5	2	8 47 12·24	136 7 50·5	2	0·19
344	... ...	9·3	2	8 47 49·96	69 38 58·7	2	0·20
345	R. P. L. 60	6·5	...	8 48 13·37	5 18 40·8	5	0·19
346	... ...	9·6	1	8 48 25·61	133 26 59·4	1	0·25
347	Taylor 3886	7·9	1	8 48 30·14	136 54 41·8	1	0·10
348	... ...	8·5	1	8 49 1·92	133 2 56·4	1	0·16
349	... ...	9·0	2	8 49 25·78	133 29 17·1	2	0·19
350	W. B. E. VIII. 1302 ...	9·3	1	8 51 12·62	98 55 37·0	1	0·18

337.—Comparison star for Meleta in 1868.
350.—Observed for map of T Hydræ, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
316	... ...	+ 2·1133	+ 0·0016	...	+ 10·994	+ 0·253	...	...
317	... ...	+ 1·0870	− 0·0122	...	+ 11·426	+ 0·126	...	...
318	Taylor 3599	+ 1·5159	− 0·0039	...	+ 11·537	+ 0·176	...	...
319	... ...	+ 0·9000	− 0·0175	...	+ 11·588	+ 0·102	...	...
320	Taylor 3607	+ 1·5180	− 0·0038	...	+ 11·607	+ 0·176	...	...
321	... ...	+ 2·1011	+ 0·0018	...	+ 11·629	+ 0·245	...	...
322	Taylor 3620	+ 2·1362	+ 0·0020	...	+ 11·750	+ 0·248	...	...
323	... ...	+ 1·5285	− 0·0037	...	+ 11·755	+ 0·176	...	...
324	31 Cancri θ	+ 3·4343	− 0·0118	− 0·005	+ 11·809	+ 0·401	+ 0·05	1203
325	33 Cancri η	+ 3·4829	− 0·0129	− 0·004	+ 11·880	+ 0·404	+ 0·05	1207
326	Taylor 3652	+ 2·1683	+ 0·0022	...	+ 11·929	+ 0·249	...	...
327	Lacaille 3393 ...	+ 1·2340	− 0·0095	...	+ 11·938	+ 0·140	...	...
328	... ...	+ 1·5394	− 0·0036	...	+ 11·952	+ 0·175	...	...
329	... ...	+ 2·1553	+ 0·0022	...	+ 11·979	+ 0·247	...	...
330	W. B. N. VIII. 699 ...	+ 3·3440	− 0·0124	...	+ 12·207	+ 0·394	...	...
331	... ...	+ 2·1934	+ 0·0014	...	+ 12·311	+ 0·222	...	...
332	43 Cancri γ	+ 3·4906	− 0·0143	− 0·009	+ 12·613	+ 0·391	+ 0·03	1230
333	45 Cancri A^1 ...	+ 3·3146	− 0·0096	− 0·001	+ 12·631	+ 0·371	− 0·01	1232
334	S Cancri, Var. 2 ...	+ 3·4392	− 0·0130	...	+ 12·663	+ 0·385	...	...
335	... ...	+ 1·9962	+ 0·0019	...	+ 12·724	+ 0·220	...	...
336	... ...	+ 1·9998	+ 0·0019	...	+ 12·763	+ 0·220	...	...
337	W. B. E. VIII. 991 ...	+ 3·2213	− 0·0076	...	+ 12·843	+ 0·355	...	...
338	50 Cancri A^2	+ 3·3008	− 0·0095	− 0·006	+ 12·885	+ 0·364	+ 0·03	1242
339	11 Hydræ ϵ	+ 3·1958	− 0·0071	− 0·014	+ 12·890	+ 0·351	+ 0·02	1243
340	... ...	+ 1·4837	− 0·0049	...	+ 12·973	+ 0·159	...	...
341	Lacaille 3534 ...	+ 2·2410	+ 0·0032	...	+ 13·063	+ 0·242	...	...
342	f Velorum	+ 2·0343	+ 0·0025	...	+ 13·302	+ 0·216	...	...
343	... ...	+ 2·0355	+ 0·0026	...	+ 13·367	+ 0·216	...	...
344	... ...	+ 3·4410	− 0·0140	...	+ 13·407	+ 0·368	...	...
345	R. P. L. 60	+ 13·7512	− 1·7198	...	+ 13·434	+ 0·481	...	...
346	... ...	+ 2·1326	+ 0·0033	...	+ 13·447	+ 0·225	...	...
347	Taylor 3886	+ 2·0122	+ 0·0025	...	+ 13·451	+ 0·212	...	...
348	... ...	+ 2·1479	+ 0·0033	...	+ 13·486	+ 0·226	...	...
349	... ...	+ 2·1350	+ 0·0033	...	+ 13·511	+ 0·224	...	...
350	W. B. E. VIII. 1302...	+ 2·9181	− 0·0016	...	+ 13·626	+ 0·307	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
351	... ...	9·7	1	8	51	22·12	98	36	57·6	1	0·18
352	65 Cancri α	4·8	...	8	51	29·03	77	38	55·0	3	0·10
353	... ...	9·5	1	8	51	34·11	147	16	26·0	1	0·22
354	... ...	9·5	1	8	54	24·38	142	43	0·2	1	0·22
355	69 Cancri ν	5·6	...	8	55	15·24	65	2	42·6	2	0·18
356	... ...	8·8	1	8	57	7·46	146	36	28·5	1	0·22
357	77 Cancri ξ	5·2	...	9	1	59·71	67	26	18·9	1	0·07
358	... ...	9·0	1	9	6	47·07	138	43	27·4	1	0·18
359	... ...	10·1	2	9	7	52·26·35	124	49	8·1	2	0·17
360	82 Cancri π^2	5·6	...	9	8	9·73	74	31	46·7	4	0·13
361	Lalande 18251	8·0	1	9	8	48·82	74	27	36·6	1	0·21
362	... ...	9·0	2	9	9	29·81	150	33	45·3	2	0·20
363	Lacaille 3761	7·0	1	9	9	41·97	150	23	24·3	1	0·21
364	83 Cancri	6·6	...	9	11	50·10	71	45	13·2	9	0·17
365	... ...	10·4	1	9	13	22·97	70	34	11·7	1	0·13
366	ι Argûs	2·5	...	9	13	39·82	148	44	22·4	1	0·11
367	... ...	8·0	1	9	15	30·35	143	50	43·2	1	0·20
368	... ...	8·9	1	9	15	55·58	124	48	52·8	1	0·26
369	... ...	9·4	2	9	16	51·28	124	40	34·8	2	0·24
370	... ...	7·8	2	9	19	23·16	70	23	20·0	2	0·18
371	... ...	9·5	1	9	19	33·23	150	32	39·9	1	0·15
372	... ...	7·3	1	9	19	55·56	75	8	32·9	1	0·22
373	... ...	8·8	1	9	20	3·59·03	125	23	13·7	1	0·17
374	... ...	7·8	1	9	20	47·14·6	125	25	0·6	1	0·17
375	30 Hydræ α, Var. 2 ...	Var.	...	9	21	17·83	98	6	19·0	10	0·14
376	Lalande 18636	8·7	1	9	22	8·43	68	31	42·4	1	0·20
377	Lalande 18659	8·2	1	9	23	4·79	67	51	31·9	1	0·25
378	... ...	7·2	1	9	23	7·57	67	37	35·5	1	0·26
379	Lalande 18683	9·3	1	9	23	44·84	68	8	53·7	1	0·27
380	... ...	9·5	1	9	24	27·76	158	42	50·9	1	0·27
381	... ...	9·0	1	9	24	51·59	130	28	14·1	1	0·23
382	Lacaille 3887	7·9	1	9	25	11·78	140	2	37·2	1	0·20
383	... ...	9·0	1	9	28	31·17	146	34	4·6	1	0·20
384	... ...	9·1	2	9	28	43·21·6	144	1	48·4	2	0·10
385	... ...	9·3	1	9	29	47·10	146	35	41·9	1	0·22

376—377—379.—Comparison stars for Metis in 1861.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
351	... ...	+ 2·9237	− 0·0017	...	+ 13·636	+ 0·307	...	...
352	65 Cancri α ...	+ 3·2868	− 0·0098	+ 0·001	+ 13·644	+ 0·346	+ 0·02	1269
353	... ...	+ 1·5482	− 0·0037	...	+ 13·649	+ 0·159	...	...
354	... ...	+ 1·8005	+ 0·0005	...	+ 13·830	+ 0·184	...	...
355	69 Cancri ν	+ 3·5211	− 0·0172	...	+ 13·884	+ 0·364	...	...
356	... ...	+ 1·6202	− 0·0023	...	+ 14·001	+ 0·163	...	...
357	77 Cancri ξ	+ 3·4615	− 0·0159	− 0·001	+ 14·304	+ 0·348	− 0·03	1289
358	... ...	+ 2·0275	+ 0·0037	...	+ 14·593	+ 0·197	...	...
359	... ...	+ 2·4376	+ 0·0046	...	+ 14·659	+ 0·237	...	...
360	82 Cancri π^2... ...	+ 3·3244	− 0·0117	− 0·003	+ 14·677	+ 0·325	− 0·02	1304
361	Lalande 18251 ...	+ 3·3247	− 0·0118	...	+ 14·715	+ 0·323	...	...
362	... ...	+ 1·4678	− 0·0057	...	+ 14·756	+ 0·138	...	...
363	Lacaille 3761... ...	+ 1·4805	− 0·0052	...	+ 14·768	+ 0·140	...	...
364	83 Cancri	+ 3·3673	− 0·0134	− 0·009	+ 14·893	+ 0·323	+ 0·14	1309
365	... ...	+ 3·3856	− 0·0142	...	+ 14·984	+ 0·322	...	...
366	ι Argûs	+ 1·6105	− 0·0022	...	+ 15·000	+ 0·150	...	...
367	... ...	+ 1·8688	+ 0·0026	...	+ 15·107	+ 0·174	...	...
368	... ...	+ 2·4620	+ 0·0053	...	+ 15·130	+ 0·229	...	...
369	... ...	+ 2·4646	+ 0·0053	...	+ 15·184	+ 0·228	...	...
370	... ...	+ 3·3794	− 0·0144	...	+ 15·328	+ 0·311	...	...
371	... ...	+ 1·5467	− 0·0035	...	+ 15·337	+ 0·138	...	...
372	... ...	+ 3·3003	− 0·0116	...	+ 15·358	+ 0·303	...	...
373	... ...	+ 2·4619	+ 0·0056	...	+ 15·366	+ 0·224	...	...
374	... ...	+ 2·4636	+ 0·0057	...	+ 15·407	+ 0·223	...	...
375	30 Hydræ α, Var. 2 ...	+ 2·9505	− 0·0013	− 0·002	+ 15·436	+ 0·268	− 0·05	1330
376	Lalande 18636 ...	+ 3·4064	− 0·0158	...	+ 15·483	+ 0·310	...	...
377	Lalande 18659 ...	+ 3·4162	− 0·0161	...	+ 15·534	+ 0·309	...	...
378	... ...	+ 3·4202	− 0·0162	...	+ 15·536	+ 0·309	...	...
379	Lalande 18683 ...	+ 3·4101	− 0·0159	...	+ 15·571	+ 0·308	...	...
380	... ...	+ 0·9181	− 0·0275	...	+ 15·610	+ 0·077	...	...
381	... ...	+ 2·3577	+ 0·0064	...	+ 15·632	+ 0·209	...	...
382	Lacaille 3887 ...	+ 2·0744	+ 0·0057	...	+ 15·651	+ 0·182	...	...
383	... ...	+ 1·8289	+ 0·0029	...	+ 15·831	+ 0·157	...	...
384	... ...	+ 1·9426	+ 0·0047	...	+ 15·842	+ 0·167	...	...
385	... ...	+ 1·8366	+ 0·0031	...	+ 15·899	+ 0·156	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
386	10 Leonis	4·7	...	9	30	26·90	82	35	30·6	1	0·22
387	B. P. L. 69	7·9	...	9	35	26·62	2	48	56·6	2	0·15
388	... ...	8·0	1	9	35	46·69	151	58	30·3	1	0·22
389	16 Leonis ψ	5·7	...	9	36	45·56	75	23	38·8	2	0·24
390	... ...	9·8	2	9	37	2·27	151	56	0·4	3	0·18
391	... ...	7·3	2	9	37	9·33	148	27	34·4	2	0·18
392	... ...	8·0	2	9	37	19·42	148	33	27·5	2	0·20
393	17 Leonis ϵ	3·1	...	9	38	34·87	65	38	14·8	6	0·20
394	Bonn $+7°.2181$	6·1	2	9	39	24·65	82	42	7·8	2	0·14
395	18 Leonis	6·1	...	9	39	29·44	77	36	5·2	3	0·28
396	... ...	8·0	2	9	39	53·78	148	35	54·2	2	0·16
397	l Carinæ, Var. 1	Var.	...	9	41	43·86	151	55	7·8	2	0·19
398	Taylor 4337	7·0	1	9	42	6·16	148	27	29·8	1	0·22
399	... ...	8·0	1	9	42	9·27	130	51	33·4	1	0·30
400	... ...	8·5	1	9	43	1·57	130	50	3·6	1	0·28
401	Lalande 19286	8·7	2	9	43	39·65	89	18	1·6	2	0·20
402	... ...	8·2	1	9	43	50·63	143	48	7·9	1	0·26
403	... ...	9·0	1	9	46	15·89	129	5	7·8	1	0·17
404	... ...	10·1	2	9	47	32·64	75	35	43·7	2	0·27
405	... ...	9·8	2	9	48	47·52	152	9	55·4	2	0·23
406	... ...	9·8	1	9	52	42·36	72	3	56·5	1	0·27
407	... ...	9·0	1	9	53	2·37	129	42	57·1	1	0·16
408	29 Leonis π	5·0	...	9	53	26·92	81	20	34·7	15	0·20
409	... ...	10·2	1	9	55	34·12	72	20	17·0	1	0·27
410	Taylor 4444	6·5	...	9	55	40·56	67	26	6·2	2	0·14
411	... ...	10·3	1	9	56	18·80	129	59	42·9	1	0·27
412	... ...	8·0	1	9	56	43·15	144	6	9·8	1	0·25
413	W. B. N. IX. 1189 ...	9·7	1	9	56	53·66	73	9	58·9	1	0·28
414	... ...	9·0	2	9	58	4·60	145	35	21·0	2	0·18
415	Taylor 4476	7·8	1	9	58	8·12	145	38	22·1	1	0·18
416	W. B. N. IX. 1230 ...	9·0	...	9	58	18·87	72	54	49·7	1	0·29
417	... ...	9·0	1	9	58	26·35	143	56	28·6	1	0·26
418	... ...	8·8	1	9	58	41·19	150	41	18·6	1	0·20
419	... ...	9·3	2	9	59	47·74	86	32	39·5	2	0·28
420	... ...	10·0	1	10	0	19·41	86	24	36·0	1	0·28

407—409—413—416.—Comparison stars for Mars in 1869.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
386	10 Leonis	+ 3·1778	− 0·0077	+ 0·001	+ 15·933	+ 0·276	+ 0·01	1340
387	R. P. L. 69	+ 19·1029	− 5·6206	...	+ 16·195	+ 1·637	...	...
388	... ...	+ 1·5938	− 0·0020	...	+ 16·213	+ 0·130	...	...
389	16 Leonis ψ	+ 3·2760	− 0·0115	− 0·001	+ 16·263	+ 0·273	+ 0·00	1366
390	... ...	+ 1·6075	− 0·0016	...	+ 16·278	+ 0·130	...	...
391	... ...	+ 1·8008	+ 0·0031	...	+ 16·283	+ 0·146	...	...
392	... ...	+ 1·7972	+ 0·0030	...	+ 16·293	+ 0·146	...	...
393	17 Leonis ε	+ 3·4224	− 0·0180	− 0·004	+ 16·357	+ 0·282	+ 0·01	1368
394	Bonn +7°. 2181 ...	+ 3·1708	− 0·0075	...	+ 16·398	+ 0·260	...	...
395	18 Leonis	+ 3·2413	− 0·0103	− 0·002	+ 16·402	+ 0·266	− 0·03	1370
396	... ...	+ 1·8152	+ 0·0036	...	+ 16·422	+ 0·145	...	...
397	*l* Carinæ, Var. 1 ...	+ 1·6504	− 0·0001	− 0·003	+ 16·514	+ 0·130	− 0·02	Stone
398	Taylor 4337	+ 1·8392	+ 0·0042	...	+ 16·532	+ 0·145	...	...
399	... ...	+ 2·4179	+ 0·0083	...	+ 16·536	+ 0·193	...	...
400	... ...	+ 2·4221	+ 0·0084	...	+ 16·578	+ 0·192	...	...
401	Lalande 19286 ...	+ 3·0813	− 0·0044	...	+ 16·610	+ 0·247	...	...
402	... ...	+ 2·0496	+ 0·0075	...	+ 16·618	+ 0·160	...	...
403	... ...	+ 2·4740	+ 0·0086	...	+ 16·735	+ 0·192	...	...
404	... ...	+ 3·2597	− 0·0113	...	+ 16·798	+ 0·253	...	...
405	... ...	+ 1·7005	+ 0·0017	...	+ 16·857	+ 0·128	...	...
406	... ...	+ 3·3003	− 0·0134	...	+ 17·040	+ 0·247	...	...
407	... ...	+ 2·4880	+ 0·0095	...	+ 17·055	+ 0·184	...	...
408	29 Leonis π	+ 3·1789	− 0·0080	− 0·004	+ 17·074	+ 0·236	+ 0·01	1398
409	... ...	+ 3·2920	− 0·0132	...	+ 17·171	+ 0·241	...	...
410	Taylor 4444	+ 3·3589	− 0·0165	...	+ 17·176	+ 0·245	...	...
411	... .	+ 2·4958	+ 0·0097	...	+ 17·204	+ 0·180	...	...
412	... ...	+ 2·1259	+ 0·0102	...	+ 17·223	+ 0·152	...	...
413	W. B. N. IX. 1189 ...	+ 3·2791	− 0·0127	...	+ 17·230	+ 0·238	...	...
414	... ...	+ 2·0822	+ 0·0099	...	+ 17·282	+ 0·147	...	...
415	Taylor 4476	+ 2·0807	+ 0·0100	...	+ 17·286	+ 0·147	...	...
416	W. B. N. IX. 1230 ...	+ 3·2802	− 0·0129	...	+ 17·294	+ 0·235	...	...
417	... ...	+ 2·1433	+ 0·0105	...	+ 17·299	+ 0·151	...	...
418	... ...	+ 1·8698	+ 0·0067	...	+ 17·310	+ 0·131	...	...
419	... ...	+ 3·1126	− 0·0054	...	+ 17·359	+ 0·221	...	...
420	... ...	+ 3·1140	− 0·0055	...	+ 17·382	+ 0·220	...	...

396.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
	421	30 Leonis η	3·6	...	10	0	21·11	72	36	52·2	2	0·07
	422	32 Leonis α (*Regulus*) ...	1·4	...	10	1	33·19	77	24	29·9	11	0·22
21·70	423	... ...	8·9	2	10	2	21·64·70	129	58	45·7	2	0·22
	424	... ...	9·4	1	10	2	40·63	123	29	43·8	1	0·23
6·70	425	... ...	9·4	2	10	3	6·70	129	59	56·7	2	0·22
	426	33 Leonis	8·0	1	10	3	47·33	73	39	55·6	1	0·27
46·91	427	... ...	9·2	2	10	4	46·88·91	122	56	21·8	2	0·23
	428	... ...	9·4	1	10	4	54·55	123	31	12·8	1	0·25
19·18	429	Taylor 4552	7·2	1	10	7	19·04·18	147	25	46·4	1	0·19
18·51	430	... ...	8·1	2	10	8	18·21·51	139	58	39·4	2	0·17
	431	... ...	9·0	1	10	10	8·90	145	36	45·6	1	0·20
	432	R. P. L. 72	5·6	...	10	10	39·28	5	6	2·6	2	0·68
	433	41 Leonis γ^1	2·2	...	10	12	54·71	69	30	44·2	17	0·23
12·10	434	... ...	9·2	...	10	13	11·90 (12·10)	128	39	19·3	1	0·17
	435	44 Leonis	6·2	...	10	18	30·39	80	33	56·8	2	0·15
3·45	436	... ...	9·8	1	10	19	3·37·45	146	10	54·0	1	0·17
	437	... ...	9·7	2	10	19	41·53	146	11	9·5	2	0·27
	438	... ...	9·5	5	10	20	30·47	146	14	13·8	5	0·25
	439	Taylor 4682	7·0	1	10	21	58·13	75	0	13·4	1	0·16
43·82	440	... ...	9·3	1	10	24	43·49·82	147	1	21·8	1	0·18
6·84	441	... ...	8·0	1	10	25	6·69·84	125	36	20·8	1	0·18
24·07	442	Lalande 20402	8·0	1	10	25	24·08·07	79	55	13·0	1	0·18
	443	... ...	8·0	4	10	25	37·80	146	53	9·4	4	0·23
	444	... ...	8·0	1	10	25	58·11	146	56	35·6	1	0·20
	445	47 Leonis ρ	4·0	...	10	26	4·23	80	2	8·8	10	0·23
28·73	446	p Carinæ	3·6	...	10	27	28·66·73	151	1	37·6	1	0·19
	447	... ...	10·0	1	10	28	20·17	131	44	3·4	1	0·30
	448	... ...	9·4	2	10	28	22·28	150	52	24·5	2	0·29
	449	... ...	9·7	2	10	29	30·85	147	57	5·3	2	0·27
	450	50 Leonis	6·5	...	10	32	2·55	73	12	27·7	3	0·19
42·84	451	... ...	9·2	1	10	35	42·72·84	137	22	2·9	1	0·18
	452	... ...	9·3	2	10	36	49·68	150	49	43·4	2	0·20
	453	... ...	8·9	1	10	37	47·56	151	31	50·5	1	0·22
	454	36 Sextantis	6·0	...	10	38	33·71	86	50	23·9	2	0·25
0·68	455	Taylor 4850—2nd ...	7·9	3	10	39	0·39·68	148	52	37·7	3	0·22

421.—Comparison star for Mars in 1869.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
421	30 Leonis η	+ 3·2809	− 0·0131	+ 0·001	+ 17·384	+ 0·232	− 0·00	1403
422	32 Leonis α	+ 3·2197	− 0·0102	− 0·018	+ 17·435	+ 0·225	− 0·02	1406
423	... ...	+ 2·5217	+ 0·0105	...	+ 17·470	+ 0·173	...	...
424	... ...	+ 2·6387	+ 0·0084	...	+ 17·484	+ 0·182	...	...
425	... ...	+ 2·5246	+ 0·0106	...	+ 17·502	+ 0·172	...	...
426	33 Leonis	+ 3·2625	− 0·0123	+ 0·005	+ 17·531	+ 0·223	+ 0·01	Gr.
427	... ...	+ 2·6548	+ 0·0089	...	+ 17·573	+ 0·179	...	...
428	... ...	+ 2·6460	+ 0·0091	...	+ 17·579	+ 0·178	...	...
429	Taylor 4552	+ 2·0842	+ 0·0116	...	+ 17·679	+ 0·136	...	...
430	... ...	+ 2·3267	+ 0·0130	...	+ 17·720	+ 0·151	...	...
431	... ...	+ 2·1713	+ 0·0129	...	+ 17·795	+ 0·138	...	...
432	R. P. L. 72	+ 9·9490	− 1·6342	− 0·096	+ 17·815	+ 0·658	− 0·04	1399
433	41 Leonis γ^1	+ 3·2971	− 0·0148	+ 0·021	+ 17·905	+ 0·208	+ 0·14	1432
434	... ...	+ 2·5918	+ 0·0115	...	+ 17·915	+ 0·162	...	...
435	44 Leonis	+ 3·1675	− 0·0079	− 0·007	+ 18·120	+ 0·191	+ 0·12	Gr.
436	... ...	+ 2·2215	+ 0·0152	...	+ 18·140	+ 0·131	...	...
437	... ...	+ 2·2262	+ 0·0155	...	+ 18·164	+ 0·130	...	...
438	... ...	+ 2·2309	+ 0·0156	...	+ 18·202	+ 0·129	...	...
439	Taylor 4682	+ 3·2207	− 0·0111	...	+ 18·248	+ 0·187	...	...
440	... ...	+ 2·2401	+ 0·0168	...	+ 18·346	+ 0·124	...	...
441	... ...	+ 2·6871	+ 0·0120	...	+ 18·361	+ 0·150	...	...
442	Lalande 20402 ...	+ 3·1675	− 0·0084	...	+ 18·370	+ 0·178	...	...
443	... ...	+ 2·2517	+ 0·0170	...	+ 18·378	+ 0·124	...	...
444	... ...	+ 2·2528	+ 0·0171	...	+ 18·390	+ 0·123	...	...
445	47 Leonis ρ	+ 3·1657	− 0·0080	− 0·001	+ 18·394	+ 0·176	− 0·01	1467
446	p Carinæ	+ 2·1235	+ 0·0165	...	+ 18·442	+ 0·114	...	...
447	... ...	+ 2·6077	+ 0·0145	...	+ 18·472	+ 0·140	...	...
448	... ...	+ 2·1382	+ 0·0169	...	+ 18·473	+ 0·114	...	...
449	... ...	+ 2·2508	+ 0·0181	...	+ 18·511	+ 0·119	...	...
450	50 Leonis	+ 3·2232	− 0·0119	...	+ 18·600	+ 0·168	...	...
451	... ...	+ 2·5500	+ 0·0177	...	+ 18·713	+ 0·126	...	...
452	... ...	+ 2·2220	+ 0·0202	...	+ 18·748	+ 0·107	...	...
453	... ...	+ 2·2067	+ 0·0205	...	+ 18·778	+ 0·105	...	...
454	36 Sextantis	+ 3·0979	− 0·0040	− 0·005	+ 18·802	+ 0·150	− 0·01	1491
455	Taylor 4850—2nd ...	+ 2·3059	+ 0·0211	...	+ 18·815	+ 0·109	...	...

426.—Proper motions from "*Greenwich Catalogue for* 1872."
435.—Proper motions from "*Greenwich Catalogue for* 1864."

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
456	... ...	9·0	1	10	39	6·44	144	52	51·6	1	0·27
457	Taylor 4852—1st... ...	8·8	3	10	39	10·37	148	54	16·4	3	0·28
458	Taylor 4852—2nd ...	9·0	3	10	39	12·14	148	54	20·7	3	0·28
459	... ...	8·8	1	10	39	21·54	148	36	43·6	1	0·28
460	Brisbane 3194—2nd ...	8·5	1	10	39	37·27	149	3	58·8	1	0·20
461	... ...	9·5	1	10	39	44·78	139	4	41·6	1	0·31
462	... ...	8·0	3	10	39	47·37	148	53	37·1	3	0·20
463	η Argûs, Var. 1	6·9	2	10	40	5·93	149	0	44·7	4	0·19
464	Taylor 4872	8·0	1	10	41	23·07	151	16	7·5	1	0·30
465	53 Leonis *l*	5·3	...	10	42	31·65	78	46	42·0	11	0·22
466	Lacaille 4502	7·9	1	10	46	50·60	141	7	18·1	1	0·19
467	... ...	9·2	1	10	47	18·28	141	47	22·6	1	0·22
468	... ...	8·0	1	10	48	11·92	150	8	4·4	1	0·27
469	... ...	9·7	1	10	48	15·74	147	44	37·1	1	0·29
470	... ...	9·2	1	10	48	20·70	129	31	45·9	1	0·27
471	... ...	9·3	2	10	48	45·98	148	54	8·2	2	0·26
472	55 Leonis	6·0	...	10	49	7·38	88	34	52·2	2	0·30
473	... ...	9·0	2	10	50	36·44	144	33	4·7	2	0·19
474	... ...	9·2	1	10	52	16·03	143	48	4·1	1	0·22
475	... ...	8·5	2	10	52	39·48	143	38	51·1	2	0·25
476	... ...	8·9	2	10	53	13·79	139	35	21·2	2	0·18
477	58 Leonis *d*	5·0	...	10	53	57·14	85	41	45·0	1	0·21
478	61 Leonis p^3	5·0	...	10	55	17·91	91	47	46·1	1	0·20
479	50 Ursæ Majoris *a* ...	2·0	...	10	55	48·46	27	33	30·3	1	0·29
480	... ...	8·5	2	10	55	57·54	149	19	21·4	2	0·24
481	... ...	9·2	1	10	57	22·39	145	38	16·7	1	0·30
482	63 Leonis χ	4·7	...	10	58	24·74	81	58	20·5	9	0·27
483	65 Leonis p^4	5·7	...	11	0	22·34	87	21	4·6	1	0·20
484	Lacaille 4612	9·3	2	11	1	13·867	154	49	9·3	2	0·18
485	... ...	8·0	1	11	1	22·96	135	36	12·1	1	0·31
486	... ...	8·2	1	11	2	9·24	149	16	19·9	1	0·28
487	... ...	7·8	1	11	2	18·07	148	58	46·7	1	0·21
488	Lalande 21367	8·0	1	11	3	43·97	78	8	22·5	1	0·19
489	Lalande 21371	7·9	2	11	3	55·68	78	0	16·0	2	0·19
490	Taylor 5088	7·7	1	11	5	15·56	149	41	25·8	1	0·21

460—471.—Observed for map of η Argûs, Var. 1.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
456	... ...	+ 2·4150	+ 0·0207	...	+ 18·818	+ 0·114	...	...
457	Taylor 4852—1st ...	+ 2·3066	+ 0·0213	...	+ 18·820	+ 0·108	...	...
458	Taylor 4852—2nd ...	+ 2·3067	+ 0·0212	...	+ 18·822	+ 0·108	...	...
459	... ...	+ 2·3170	+ 0·0213	...	+ 18·826	+ 0·109	...	...
460	Brisbane 3194—2nd...	+ 2·3056	+ 0·0214	...	+ 18·834	+ 0·108	...	...
461	... ...	+ 2·5431	+ 0·0191	...	+ 18·837	+ 0·119	...	...
462	... ...	+ 2·3126	+ 0·0214	...	+ 18·838	+ 0·108	...	...
463	η Argûs, Var. 1 ...	+ 2·3116	+ 0·0217	...	+ 18·848	+ 0·107	...	...
464	Taylor 4872	+ 2·2519	+ 0·0220	...	+ 18·886	+ 0·102	...	...
465	53 Leonis l	+ 3·1601	− 0·0080	− 0·002	+ 18·920	+ 0·145	+ 0·02	1500
466	Lacaille 4502 ...	+ 2·5519	+ 0·0215	...	+ 19·041	+ 0·109	...	...
467	... ...	+ 2·5424	+ 0·0218	...	+ 19·054	+ 0·108	...	...
468	... ...	+ 2·3546	+ 0·0246	...	+ 19·079	+ 0·098	...	...
469	... ...	+ 2·4199	+ 0·0242	...	+ 19·080	+ 0·101	...	...
470	... ...	+ 2·7329	+ 0·0164	...	+ 19·082	+ 0·115	...	...
471	... ...	+ 2·3943	+ 0·0247	...	+ 19·093	+ 0·099	...	...
472	55 Leonis	+ 3·0823	− 0·0026	+ 0·006	+ 19·103	+ 0·130	− 0·01	1517
473	... ...	+ 2·5122	+ 0·0238	...	+ 19·142	+ 0·102	...	...
474	... ...	+ 2·5401	+ 0·0239	...	+ 19·185	+ 0·100	...	...
475	... ...	+ 2·5461	+ 0·0239	...	+ 19·195	+ 0·100	...	...
476	... ...	+ 2·6211	+ 0·0222	...	+ 19·209	+ 0·102	...	...
477	58 Leonis d	+ 3·1007	− 0·0039	− 0·002	+ 19·227	+ 0·120	+ 0·01	1526
478	61 Leonis p^3... ...	+ 3·0605	− 0·0007	+ 0·000	+ 19·261	+ 0·117	+ 0·01	1530
479	50 Urs. Maj. α ...	+ 3·7804	− 0·0821	− 0·018	+ 19·273	+ 0·144	+ 0·07	1528
480	... ...	+ 2·4506	+ 0·0274	...	+ 19·276	+ 0·091	...	...
481	... ...	+ 2·5445	+ 0·0263	...	+ 19·311	+ 0·092	...	...
482	63 Leonis χ	+ 3·1222	− 0·0056	− 0·026	+ 19·335	+ 0·113	+ 0·02	1535
483	65 Leonis p^4... ..	+ 3·0881	− 0·0028	− 0·029	+ 19·380	+ 0·109	+ 0·06	1539
484	Lacaille 4612 ...	+ 2·3510	+ 0·0315	...	+ 19·399	+ 0·079	...	...
485	... ...	+ 2·7268	+ 0·0216	...	+ 19·401	+ 0·093	...	...
486	... ...	+ 2·5105	+ 0·0297	...	+ 19·419	+ 0·084	...	...
487	... ...	+ 2·5185	+ 0·0296	...	+ 19·422	+ 0·084	...	...
488	Lalande 21367 ...	+ 3·1404	− 0·0076	...	+ 19·454	+ 0·105	...	...
489	Lalande 21371 ...	+ 3·1411	− 0·0076	...	+ 19·457	+ 0·105	...	...
490	Taylor 5088	+ 2·5311	+ 0·0312	...	+ 19·485	+ 0·080	...	...

Mean Positions of Stars for 1872, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
491	... ...	8·0	2	11	6	9·47	149	1	21·0	2	0·22
492	Taylor 5108	5·6	...	11	7	6·98	149	37	20·9	1	0·29
493	69 Leonis p^5	5·5	...	11	7	12·25	89	22	25·3	1	0·24
494	68 Leonis δ	2·8	...	11	7	17·90	68	46	32·0	9	0·28
495	Taylor 5107	6·1	2	11	7	22·80	81	14	21·6	2	0·22
496	... ...	8·0	1	11	7	28·22	145	42	52·0	1	0·31
497	73 Leonis n	5·5	...	11	9	9·45	75	59	40·8	1	0·07
498	12 Crateris δ	3·9	...	11	12	56·55	104	5	11·1	10	0·27
499	78 Leonis ι	4·0	...	11	17	15·04	78	45	59·5	2	0·18
500	79 Leonis...	5·5	...	11	17	28·06	87	53	24·0	2	0·22
501	... ...	8·9	3	11	21	14·48	145	54	24·6	3	0·28
502	84 Leonis τ	5·1	...	11	21	21·25	86	26	21·4	1	0·29
503	Lalande 21819	8·0	3	11	21	22·21	86	27	53·1	3	0·21
504	Lalande 21833	7·8	3	11	21	51·44	86	30	36·4	3	0·23
505	... ...	10·0	1	11	22	43·04	91	58	48·3	1	0·29
506	... ...	9·1	1	11	23	10·23	145	56	23·4	1	0·24
507	... ...	9·0	1	11	25	30·13	151	34	8·9	1	0·28
508	... ...	9·5	1	11	27	13·69	151	33	38·1	1	0·28
509	91 Leonis ν	4·5	...	11	30	23·73	90	7	2·3	16	0·28
510	W. B. E. XI. 573... ...	8·0	7	11	33	54·22	84	9	2·9	7	0·37
511	W. B. E. XI. 582... ...	8·2	1	11	34	22·50	84	20	17·6	1	0·31
512	2 Virginis ξ	5·0	...	11	38	41·17	81	1	50·7	2	0·25
513	3 Virginis ν	4·2	...	11	39	16·78	82	45	13·1	1	0·22
514	3 Virginis A^1	5·2	...	11	41	20·33	81	2	35·8	2	0·30
515	94 Leonis β (*Denebola*) ...	2·2	...	11	42	31·75	74	42	44·8	15	0·29
516	B. A. C. 3996	6·1	3	11	42	33·54	84	5	59·1	3	0·23
517	W. B. E. XI. 805... ...	8·0	2	11	47	55·19	85	15	3·4	2	0·22
518	Bonn +4°.2543	9·1	7	11	48	8·09	85	30	44·5	7	0·35
519	Bonn +4°.2550	10·2	2	11	50	57·49	85	21	58·1	2	0·37
520	Taylor 6389	7·4	1	11	51	40·35	85	48	18·3	1	0·25
521	... ...	9·0	1	11	52	44·70	154	35	12·7	1	0·27
522	7 Virginis b	5·2	...	11	53	23·51	85	37	54·5	1	0·25
523	8 Virginis π	4·4	...	11	54	18·86	82	40	18·8	3	0·27
524	Taylor 6440	8·0	1	11	58	9·87	85	42	48·7	1	0·32
525	R. P. L. 89	6·3	...	11	58	16·60	3	42	12·9	2	0·51

495—497—512—514.—Comparison stars for the moon.
505.—Comparison star for Asia in 1868.
510—511—517—518—519—524.—Comparison stars for Mars in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
491	... ...	+ 2·5539	+ 0·0311	...	+ 19·504	+ 0·079	...	...
492	Taylor 5108	+ 2·5506	+ 0·0319	...	+ 19·522	+ 0·077	...	...
493	69 Leonis p^5... ...	+ 3·0756	− 0·0013	− 0·003	+ 19·525	+ 0·095	− 0·01	1547
494	68 Leonis δ	+ 3·1905	− 0·0132	+ 0·010	+ 19·527	+ 0·098	+ 0·12	1546
495	Taylor 5107	+ 3·1191	− 0·0055	...	+ 19·528	+ 0·095	...	...
496	... ...	+ 2·6267	+ 0·0294	...	+ 19·530	+ 0·079	...	...
497	73 Leonis n	+ 3·1451	− 0·0049	− 0·002	+ 19·565	+ 0·043	+ 0·02	1550
498	12 Crateris δ... ...	+ 3·0037	+ 0·0064	− 0·011	+ 19·634	+ 0·081	− 0·21	1557
499	78 Leonis ι	+ 3·1214	− 0·0064	+ 0·009	+ 19·707	+ 0·076	+ 0·06	1560
500	79 Leonis	+ 3·0813	− 0·0016	− 0·003	+ 19·710	+ 0·076	− 0·01	1562
501	... ...	+ 2·7397	+ 0·0339	...	+ 19·768	+ 0·059	...	...
502	84 Leonis τ	+ 3·0862	− 0·0020	− 0·001	+ 19·770	+ 0·072	+ 0·01	1570
503	Lalande 21819 ...	+ 3·0860	− 0·0021	...	+ 19·770	+ 0·068	...	...
504	Lalande 21833 ...	+ 3·0859	− 0·0020	...	+ 19·778	+ 0·067	...	...
505	... ...	+ 3·0646	+ 0·0008	...	+ 19·789	+ 0·064	...	...
506	... ...	+ 2·7557	+ 0·0344	...	+ 19·795	+ 0·056	...	...
507	... ...	+ 2·7019	+ 0·0415	...	+ 19·828	+ 0·050	...	...
508	... ...	+ 2·7203	+ 0·0423	...	+ 19·840	+ 0·048	...	...
509	91 Leonis υ	+ 3·0718	+ 0·0003	− 0·002	+ 19·888	+ 0·049	− 0·05	1586
510	W. B. E. XI. 573 ...	+ 3·0877	− 0·0026	...	+ 19·925	+ 0·042	...	...
511	W. B. E. XI. 582 ...	+ 3·0870	− 0·0024	...	+ 19·930	+ 0·041	...	...
512	2 Virginis ξ	+ 3·0917	− 0·0040	+ 0·004	+ 19·968	+ 0·033	+ 0·01	1599
513	3 Virginis ν	+ 3·0877	− 0·0031	− 0·003	+ 19·973	+ 0·032	+ 0·17	1601
514	4 Virginis A^1 ...	+ 3·0893	− 0·0039	− 0·005	+ 19·989	+ 0·027	− 0·02	1602
515	94 Leonis β (*Deneb*)..	+ 3·1000	− 0·0074	− 0·036	+ 19·996	+ 0·025	+ 0·10	1605
516	B. A. C. 3996 ...	+ 3·0827	− 0·0022	...	+ 19·997	+ 0·025	...	...
517	W. B. E. XI. 805 ...	+ 3·0780	− 0·0013	...	+ 20·027	+ 0·014	...	...
518	Bonn +4°.2543 ...	+ 3·0775	− 0·0011	...	+ 20·028	+ 0·014	...	...
519	Bonn +4°.2550 ...	+ 3·0764	− 0·0010	...	+ 20·039	+ 0·008	...	...
520	Taylor 6389	+ 3·0757	− 0·0008	...	+ 20·042	+ 0·007	...	...
521	... ...	+ 2·9831	+ 0·0604	...	+ 20·044	+ 0·005	...	...
522	7 Virginis b	+ 3·0751	− 0·0008	− 0·002	+ 20·047	+ 0·005	− 0·02	1617
523	8 Virginis π	+ 3·0764	− 0·0022	− 0·003	+ 20·048	+ 0·002	+ 0·02	1618
524	Taylor 6440	+ 3·0729	− 0·0004	...	+ 20·054	− 0·006	...	...
525	R. P. L. 89	+ 3·2275	− 0·5065	...	+ 20·054	− 0·005	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
526	... ...	8·8	1	12	1	32·22	150	24	8·8	1	0·24
527	W. B. E. XII. 9	9·0	5	12	2	52·52	86	50	50·9	5	0·37
528	Lacaille 5041	7·8	1	12	2	57·52	141	25	53·6	1	0·24
529	10 Virginis	6·1	...	12	3	7·65	87	22	59·5	1	0·15
530	2 Corvi ϵ	3·1	...	12	3	32·65	111	54	28·5	11	0·29
531	... ...	9·0	2	12	4	14·95	145	58	59·8	2	0·35
532	Lalande 22869	9·6	2	12	4	59·85	86	40	46·3	2	0·39
533	... ...	8·3	...	12	6	12·96	134	10	51·6	1	0·28
534	... ...	8·7	1	12	6	21·21	150	21	46·5	1	0·39
535	W. B. E. XII. 87	7·5	1	12	7	23·49	87	1	38·5	1	0·25
536	69 Ursæ Majoris δ ...	3·4	...	12	8	4·88	32	15	20·7	1	0·32
537	W. B. E. XII. 174 ...	8·0	5	12	12	28·03	88	7	24·0	5	0·36
538	R. P. L. 92	6·7	...	12	13	7·37	2	51	7·9	1	0·39
539	... ...	8·5	1	12	13	18·54	108	33	47·2	1	0·34
540	15 Virginis η	4·0	...	12	13	21·48	89	57	19·1	6	0·29
541	16 Virginis c	5·2	...	12	13	50·89	85	58	28·2	1	0·15
542	R. P. L. 93	6·3	...	12	14	20·37	1	35	28·0	1	0·83
543	Lacaille 5119	8·8	1	12	15	47·17	138	36	57·4	1	0·24
544	W. B. E. XII. 269 ...	8·0	5	12	18	8·01	87	54	26·3	5	0·37
545	... ...	8·0	1	12	19	29·07	147	24	0·2	1	0·38
546	α Crucis	1·5	...	12	19	29·53	152	23	25·3	2	0·29
547	Taylor 5710	7·0	1	12	20	27·33	147	36	31·1	1	0·40
548	... ...	9·0	2	12	21	36·56	147	28	32·4	2	0·35
549	... ...	9·5	1	12	23	38·50	87	3	39·9	1	0·28
550	... ...	9·0	1	12	25	5·27	151	1	16·7	1	0·30
551	... ...	8·3	2	12	27	27·32	38	3	6·4	2	0·25
552	9 Corvi β	2·8	...	12	27	39·95	112	41	19·4	4	0·23
553	Taylor 5785	7·9	1	12	28	13·38	151	2	6·2	1	0·36
554	... ...	8·5	1	12	28	15·39	141	42	34·8	1	0·38
555	Lalande 23532	8·3	5	12	28	53·18	92	50	26·8	5	0·34
556	... ...	9·0	1	12	33	1·65	100	7	21·9	1	0·39
557	... ...	7·5	2	12	33	13·48	28	16	2·2	2	0·37
558	29 Virginis γ^1 (*North*) ...	2·8	...	12	35	10·33	90	44	47·9	1	0·30
559	28 Virginis	6·5	1	12	35	20·68	96	47	46·3	2	0·34
560	S Ursæ Majoris, Var. 2 ...	10·0	1	12	38	20·06	28	12	18·4	1	0·34

527—532—535—537—544.—Comparison stars for moon.
538.—Groombridge 1871.
542.—Groombridge 1884.
555.—Comparison star for Hestia in 1872 and Polyhymnia in 1867.
556.—Comparison star for Sappho in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
526	... ...	+ 3·0880	+ 0·0549	...	+ 20·053	− 0·011	...	...
527	W. B. E. XII. 9 ...	+ 3·0712	+ 0·0005	...	+ 20·053	− 0·015	...	...
528	Lacaille 5041 ...	+ 3·0939	+ 0·0400	...	+ 20·053	− 0·014	...	...
529	10 Virginis	+ 3·0714	+ 0·0007	+ 0·001	+ 20·053	− 0·013	+ 0·19	1625
530	2 Corvi ϵ	+ 3·0805	+ 0·0142	− 0·006	+ 20·052	− 0·016	− 0·02	1626
531	... ...	+ 3·1089	+ 0·0474	...	+ 20·051	− 0·017	...	...
532	Lalande 22869 ...	+ 3·0705	+ 0·0005	...	+ 20·050	− 0·019	...	...
533	... ...	+ 3·1074	+ 0·0318	...	+ 20·047	− 0·021	...	...
534	... ...	+ 3·1374	+ 0·0568	...	+ 20·047	− 0·021	...	...
535	W. B. E. XII. 87 ...	+ 3·0699	+ 0·0008	...	+ 20·045	− 0·024	...	...
536	69 Urs. Maj. δ ...	+ 2·9884	− 0·0425	+ 0·013	+ 20·038	− 0·026	− 0·00	1637
537	W. B. E. XII. 174 ...	+ 3·0698	+ 0·0016	...	+ 20·025	− 0·034	...	...
538	R. P. L. 92	+ 1·5363	+ 0·0033	+ 0·285	+ 20·022	− 0·022	+ 0·02	1656
539	... ...	+ 3·0982	+ 0·0128	...	+ 20·021	− 0·035	...	...
540	15 Virginis η... ...	+ 3·0721	+ 0·0027	− 0·006	+ 20·020	− 0·035	+ 0·02	1647
541	16 Virginis c... ...	+ 3·0665	+ 0·0006	− 0·021	+ 20·017	− 0·036	+ 0·06	1652
542	R. P. L. 93	+ 0·0632	+ 1·0321	− 0·152	+ 20·015	− 0·010	− 0·07	Main
543	Lacaille 5119 ...	+ 3·1766	+ 0·0388	...	+ 20·007	− 0·040	...	...
544	W. B. E. XII. 269 ...	+ 3·0682	+ 0·0018	...	+ 19·992	− 0·045	...	...
545	... ...	+ 3·2498	+ 0·0546	...	+ 19·982	− 0·040	...	...
546	α Crucis	+ 3·2892	+ 0·0680	− 0·006	+ 19·983	− 0·050	+ 0·04	Stone
547	Taylor 5710	+ 3·2600	+ 0·0555	...	+ 19·975	− 0·051	...	...
548	... ...	+ 3·2696	+ 0·0556	...	+ 19·965	− 0·053	...	...
549	... ...	+ 3·0650	+ 0·0017	...	+ 19·948	− 0·055	...	...
550	... ...	+ 3·3360	+ 0·0658	...	+ 19·935	− 0·061	...	...
551	... ...	+ 2·8681	− 0·0294	...	+ 19·911	− 0·058	...	...
552	9 Corvi β	+ 3·1394	+ 0·0164	− 0·003	+ 19·909	− 0·064	+ 0·05	1685
553	Taylor 5785	+ 3·3690	+ 0·0670	...	+ 19·902	− 0·068	...	...
554	... ...	+ 3·2805	+ 0·0459	...	+ 19·902	− 0·067	...	...
555	Lalande 23532 ...	+ 3·0806	+ 0·0050	...	+ 19·896	− 0·065	...	...
556	... ...	+ 3·1065	+ 0·0091	...	+ 19·846	− 0·074	...	...
557	... ...	+ 2·7130	− 0·0384	...	+ 19·844	− 0·066	...	...
558	29 Virginis γ^1 ...	+ 3·0748	+ 0·0043	− 0·039	+ 19·820	− 0·078	− 0·02	1698-9
559	28 Virginis	+ 3·0967	+ 0·0074	− 0·001	+ 19·817	− 0·078	+ 0·03	1700
560	S Urs. Maj., Var. 2...	+ 2·6573	− 0·0360	...	+ 19·775	− 0·073	...	...

Mean Positions of Stars for 1872, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
561	... ...	9·2	5	12	38	31·70	96	15	13·8	5	0·34
562	35 Virginis	6·0	...	12	41	20·42	85	43	40·6	1	0·30
563	... ...	8·9	1	12	42	52·07	147	21	23·4	1	0·37
564	... ...	9·0	1	12	43	14·48	142	54	34·4	1	0·35
565	... ...	9·1	1	12	43	18·22	139	27	56·5	1	0·38
566	U Virginis, Var. 3 ...	8·0	1	12	44	36·21	83	44	58·6	1	0·25
567	37 Virginis	6·0	...	12	45	5·92	86	14	49·7	1	0·39
568	... ...	9·5	1	12	45	34·66	83	21	44·9	1	0·28
569	R. P. L. 99	5·5	...	12	48	12·69	5	53	28·4	8	0·48
570	... ...	9·5	1	12	48	54·87	125	27	56·2	1	0·35
571	43 Virginis δ	3·7	...	12	49	9·42	85	54	23·8	1	0·38
572	... ...	8·0	1	12	49	51·50	145	36	49·2	1	0·30
573	12 Canum Venaticorum α.	3·0	...	12	50	2·20	50	59	24·2	2	0·25
574	O. A. S. 12539	6·9	4	12	50	25·68	118	10	28·7	4	0·35
575	... ...	9·0	1	12	51	36·51	127	7	43·1	1	0·29
576	44 Virginis κ	5·9	...	12	53	3·98	93	7	17·0	1	0·15
577	... ...	7·8	1	12	53	35·60	142	26	40·7	1	0·35
578	... ...	9·3	1	12	55	5·69	139	20	59·1	1	0·37
579	... ...	8·8	1	12	56	15·20	149	30	6·2	1	0·30
580	48 Virginis	6·6	...	12	57	18·78	92	58	26·8	1	0·15
581	... ...	10·0	...	12	58	36·85	113	15	9·5	1	0·35
582	50 Virginis	6·7	1	13	3	3·37	99	38	45·0	2	0·31
583	51 Virginis θ	4·4	...	13	3	19·42	94	51	18·5	16	0·36
584	... ...	9·2	2	13	5	4·29	143	14	55·9	2	0·36
585	... ...	9·0	1	13	6	3·79	124	19	3·6	1	0·31
586	O. A. N. 13563	8·3	2	13	15	42·45	27	55	45·7	2	0·32
587	... ...	8·9	1	13	16	17·64	145	15	23·5	1	0·38
588	65 Virginis	6·1	...	13	16	40·96	94	15	16·7	3	0·34
589	... ...	9·6	1	13	17	34·37	128	11	58·4	1	0·28
590	66 Virginis	5·8	...	13	17	53·45	94	29	39·3	1	0·31
591	67 Virginis α (*Spica*) ...	1·2	...	13	18	27·12	100	29	33·2	8	0·38
592	79 Urs. Maj. ζ (*Mizar*)—1st	2·6	...	13	18	46·17	34	24	20·5	2	0·41
593	79 Urs. Maj. ζ (*Mizar*)—2nd	4·2	...	13	18	47·04	34	24	33·0	1	0·48
594	... ...	9·5	1	13	22	15·83	112	30	27·8	1	0·29
595	R Hydræ, Var. 1	8·1	3	13	22	43·25	112	37	8·1	3	0·35

561.—Comparison star for Asia in 1872.
568.—Observed for map of U Virginis, Var. 3.
574.—Comparison star for Danaë in 1869.
586.—Comparison star for Comet 2, 1861.
594.—Observed for map of R Hydræ, Var. 1.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
561	... ...	+ 3·0967	+ 0·0074	...	+ 19·773	− 0·084	...	...
562	35 Virginis... ...	+ 3·0642	+ 0·0020	− 0·003	+ 19·729	− 0·089	+ 0·01	1708
563	... ...	+ 3·4602	+ 0·0613	...	+ 19·705	− 0·101	...	...
564	... ...	+ 3·4038	+ 0·0512	...	+ 19·698	− 0·100	...	...
565	... ...	+ 3·3658	+ 0·0449	...	+ 19·697	− 0·099	...	...
566	U Virginis, Var. 3 ...	+ 3·0439	+ 0·0012	...	+ 19·675	− 0·093	...	...
567	37 Virginis	+ 3·0550	+ 0·0025	− 0·004	+ 19·667	− 0·095	− 0·03	1714
568	... ...	+ 3·0415	+ 0·0010	...	+ 19·659	− 0·095	...	...
569	R. P. L. 99	+ 0·3669	+ 0·2212	− 0·017	+ 19·612	− 0·019	− 0·02	1730
570	... ...	+ 3·2739	+ 0·0279	...	+ 19·599	− 0·108	...	...
571	43 Virginis δ... ...	+ 3·0518	+ 0·0025	− 0·034	+ 19·595	− 0·103	+ 0·05	1723
572	... ...	+ 3·4939	+ 0·0586	...	+ 19·582	− 0·117	...	...
573	12 Can. Ven. α ...	+ 2·8376	− 0·0152	− 0·022	+ 19·579	− 0·098	− 0·07	1725
574	O. A. S. 12539 ...	+ 3·2284	+ 0·0217	...	+ 19·572	− 0·110	...	...
575	... ...	+ 3·2982	+ 0·0298	...	+ 19·548	− 0·115	...	...
576	44 Virginis κ... ...	+ 3·0888	+ 0·0064	− 0·004	+ 19·520	− 0·111	− 0·01	1729
577	... ...	+ 3·4751	+ 0·0522	...	+ 19·509	− 0·125	...	...
578	... ...	+ 3·4429	+ 0·0465	...	+ 19·477	− 0·127	...	...
579	... ...	+ 3·6238	+ 0·0716	...	+ 19·454	− 0·136	...	...
580	48 Virginis	+ 3·0894	+ 0·0065	− 0·006	+ 19·431	− 0·119	+ 0·02	1738
581	... ...	+ 3·2127	+ 0·0184	...	+ 19·446	− 0·122	...	...
582	50 Virginis	+ 3·1339	+ 0·0104	− 0·001	+ 19·300	− 0·131	+ 0·02	1746
583	51 Virginis θ... ...	+ 3·1031	+ 0·0078	− 0·004	+ 19·294	− 0·132	+ 0·04	1747
584	... ...	+ 3·5738	+ 0·0560	...	+ 19·252	− 0·153	...	...
585	... ...	+ 3·3317	+ 0·0282	...	+ 19·227	− 0·145	...	...
586	O. A. N. 13563 ...	+ 2·2542	− 0·0189	...	+ 18·971	− 0·114	...	...
587	... ...	+ 3·7021	+ 0·0629	...	+ 18·953	− 0·183	...	...
588	65 Virginis	+ 3·1048	+ 0·0080	− 0·004	+ 18·943	− 0·157	+ 0·01	1772
589	... ...	+ 3·4216	+ 0·0331	...	+ 18·917	− 0·173	...	...
590	66 Virginis	+ 3·1072	+ 0·0082	+ 0·009	+ 18·892	− 0·159	+ 0·02	1773
591	67 Virginis α... ...	+ 3·1553	+ 0·0116	− 0·004	+ 18·891	− 0·163	+ 0·02	1774
592	79 Urs. Maj. ζ—1st...	+ 2·4144	− 0·0172	+ 0·013	+ 18·882	− 0·127	+ 0·02	1776
593	79 Urs. Maj. ζ—2nd..	+ 2·4143	− 0·0172	+ 0·015	+ 18·881	− 0·127	+ 0·03	1777
594	... ...	+ 3·2668	+ 0·0191	...	+ 18·776	− 0·175	...	...
595	R Hydræ, Var. 1 ...	+ 3·2689	+ 0·0192	+ 0·002	+ 18·766	− 0·176	− 0·01	Gr.

595.—Proper motions from "*Greenwich Catalogue* 1872."

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
596	... ...	9·0	1	13	25	15·28	128	11	11·6	1	0·29
597	... ...	9·0	2	13	25	16·91	124	11	37·5	2	0·42
598	74 Virginis l^2	4·9	...	13	25	18·72	95	35	39·5	2	0·40
599	... ...	8·6	1	13	25	59·05	128	12	50·3	1	0·24
600	Taylor 6257	8·3	2	13	26	6·88	148	50	53·7	2	0·38
601	... ...	8·0	1	13	27	6·08	131	37	40·7	1	0·44
602	79 Virginis ζ	3·5	...	13	28	10·33	89	56	26·7	5	0·39
603	80 Virginis	5·8	...	13	28	51·88	94	44	36·8	2	0·23
604	... ...	8·0	1	13	30	1·47	151	5	14·5	2	0·33
605	Lacaille 5614	8·0	1	13	30	24·68	128	14	35·4	1	0·35
606	... ...	10·2	1	13	34	31·09	129	12	26·9	1	0·44
607	82 Virginis m	5·3	...	13	34	53·73	98	3	22·4	1	0·38
608	Bonn +0°.3090	9·3	1	13	35	24·02	89	27	57·7	1	0·40
609	... ...	9·2	1	13	36	42·85	128	7	48·3	1	0·44
610	Taylor 6366	7·0	1	13	37	25·54	151	48	30·6	1	0·34
611	Lacaille 5659	8·0	1	13	37	41·25	152	15	59·0	1	0·29
612	... ...	8·2	2	13	37	59·46	128	42	42·9	2	0·42
613	Taylor 6374	7·2	2	13	38	16·88	151	56	52·9	2	0·36
614	... ...	9·5	1	13	39	7·07	152	48	30·1	1	0·35
615	85 Ursæ Majoris η ...	2·0	...	13	42	29·55	40	2	55·4	1	0·28
616	89 Virginis	5·2	...	13	42	55·17	107	29	43·7	2	0·33
617	... —2nd... ...	10·0	1	13	45	59·55	128	25	35·0	1	0·42
618	X Virginis, Var. 5 ...	8·9	1	13	47	38·66	78	18	15·5	1	0·34
619	Taylor 6473	6·5	1	13	48	15·33	97	25	39·8	1	0·38
620	8 Bōotis η...	2·9	...	13	48	35·37	70	57	35·2	12	0·37
621	... ...	8·2	1	13	50	32·70	149	56	32·3	1	0·36
622	... ...	8·4	1	13	50	39·48	123	46	7·4	1	0·42
623	... ...	8·3	2	13	51	8·48	123	46	18·2	2	0·40
624	... ...	8·8	2	13	53	37·67	135	43	13·3	2	0·36
625	93 Virginis τ	4·4	...	13	55	8·01	87	50	6·3	10	0·40
626	Lacaille 5794	6·3	1	13	57	39·70	152	49	56·5	1	0·35
627	... ...	8·6	1	13	58	43·50	129	22	24·0	1	0·36
628	95 Virginis	5·7	...	13	59	56·76	98	42	5·8	2	0·31
629	... ...	9·8	1	14	0	55·63	150	53	23·9	1	0·44
630	... ...	9·5	1	14	2	30·55	124	18	29·0	2	0·31

608.—Comparison star for Isis in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual. Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
596	... ...	+ 3·4544	+ 0·0334	...	+ 18·683	− 0·190	...	...
597	... ...	+ 3·4025	+ 0·0291	...	+ 18·682	− 0·188	...	...
598	74 Virginis l^3 ...	+ 3·1197	+ 0·0091	− 0·008	+ 18·682	− 0·174	+ 0·03	1784
599	... ...	+ 3·4579	+ 0·0334	...	+ 18·660	− 0·192	...	...
600	Taylor 6257	+ 3·8839	+ 0·0761	...	+ 18·655	− 0·215	...	...
601	... ...	+ 3·5129	+ 0·0379	...	+ 18·623	− 0·197	...	...
602	79 Virginis ζ ...	+ 3·0716	+ 0·0064	− 0·021	+ 18·589	− 0·176	− 0·06	1789
603	80 Virginis	+ 3·1141	+ 0·0088	− 0·001	+ 18·566	− 0·180	− 0·10	1790
604	... ...	+ 3·9985	+ 0·0861	...	+ 18·527	− 0·231	...	...
605	Lacaille 5614 ...	+ 3·4772	+ 0·0337	...	+ 18·514	− 0·202	...	...
606	... ...	+ 3·5094	+ 0·0351	...	+ 18·373	− 0·212	...	...
607	82 Virginis m ...	+ 3·1483	+ 0·0108	− 0·009	+ 18·359	− 0·192	− 0·05	1796
608	Bonn +0°.3090 ...	+ 3·0671	+ 0·0065	...	+ 18·342	− 0·189	...	...
609	... ...	+ 3·5021	+ 0·0339	...	+ 18·295	− 0·216	...	...
610	Taylor 6366	+ 4·1009	+ 0·0909	...	+ 18·269	− 0·253	...	...
611	Lacaille 5659 ...	+ 4·1234	+ 0·0933	...	+ 18·260	− 0·255	...	...
612	... ...	+ 3·5166	+ 0·0346	...	+ 18·250	− 0·220	...	...
613	Taylor 6374	+ 4·1154	+ 0·0920	...	+ 18·239	− 0·257	...	...
614	... ...	+ 4·1629	+ 0·0964	...	+ 18·208	− 0·261	...	...
615	85 Urs. Maj. η ...	+ 2·3842	− 0·0103	− 0·012	+ 18·083	− 0·159	+ 0·01	1815
616	89 Virginis	+ 3·2552	+ 0·0164	− 0·009	+ 18·066	− 0·213	+ 0·03	1811
617	... —2nd ...	+ 3·5454	+ 0·0346	...	+ 17·948	− 0·238	...	...
618	X Virginis, Var. 5 ...	+ 2·9469	+ 0·0022	...	+ 17·883	− 0·202	...	...
619	Taylor 6473	+ 3·1526	+ 0·0109	...	+ 17·858	− 0·217	...	...
620	8 Böotis η	+ 2·8616	− 0·0006	− 0·005	+ 17·845	− 0·199	+ 0·34	1821
621	... ...	+ 4·1438	+ 0·0844	...	+ 17·767	− 0·289	...	...
622	... ...	+ 3·4873	+ 0·0295	...	+ 17·762	− 0·243	...	...
623	... ...	+ 3·4890	+ 0·0295	...	+ 17·742	− 0·244	...	...
624	... ...	+ 3·7245	+ 0·0453	...	+ 17·639	− 0·265	...	...
625	93 Virginis τ... ...	+ 3·0480	+ 0·0064	− 0·001	+ 17·576	− 0·221	+ 0·03	1829
626	Lacaille 5794 ...	+ 4·3517	+ 0·0996	...	+ 17·469	− 0·318	...	...
627	... ...	+ 3·6155	+ 0·0361	...	+ 17·424	− 0·268	...	...
628	95 Virginis	+ 3·1745	+ 0·0118	− 0·012	+ 17·370	− 0·238	− 0·02	1834
629	... ...	+ 4·2812	+ 0·0897	...	+ 17·327	− 0·320	...	...
630	... ...	+ 3·5370	+ 0·0302	...	+ 17·257	− 0·269	...	...

Mean Positions of Stars for 1872, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
631	R. P. L. 108	...	...	14	2	53·20	3	37	45·4	1	0·42
632	... ...	8·9	2	14	2	55·07	129	6	34·7	2	0·39
633	Böotis, Var. 4	9·7	2	14	4	45·15	79	34	49·7	2	0·44
634	98 Virginis κ	4·3	...	14	6	4·15	99	40	36·4	2	0·31
635	99 Virginis ι	4·2	...	14	9	18·13	95	23	18·1	1	0·35
636	16 Böotis α (*Arcturus*) ...	0·0	...	14	9	49·45	70	9	1·1	11	0·38
637	... ...	10·0	1	14	11	54·43	124	18	44·4	1	0·43
638	... ...	9·6	1	14	11	58·02	124	29	49·0	1	0·36
639	100 Virginis λ	4·6	...	14	12	11·17	102	46	50·2	1	0·24
640	W. B. E. XIV. 192 ...	7·7	1	14	12	17·56	103	48	55·7	1	0·35
641	... ...	8·6	1	14	15	2·87	122	37	59·9	1	0·36
642	Taylor 6709	7·0	1	14	16	26·53	119	5	34·0	2	0·35
643	S Böotis, Var. 2	8·6	3	14	18	35·72	35	36	24·6	3	0·32
644	... ...	9·2	2	14	20	2·47	124	40	34·1	2	0·42
645	... ...	8·8	1	14	22	26·17	122	36	9·3	1	0·35
646	Lacaille 5962	7·9	1	14	23	11·85	129	48	56·4	1	0·35
647	... ...	9·0	2	14	23	25·71	129	48	9·7	2	0·37
648	... ...	8·0	2	14	24	13·96	136	56	34·5	2	0·37
649	... ...	9·0	1	14	24	41·69	123	50	46·8	1	0·44
650	O. A. N. 14634	8·9	1	14	25	59·00	20	10	32·8	1	0·45
651	25 Böotis ρ	3·6	...	14	26	18·77	59	3	56·6	6	0·36
652	O. A. N. 14652	7·8	1	14	27	8·39	20	9	6·1	1	0·42
653	R Böotis, Var. 1	8·7	1	14	31	32·89	62	42	26·5	1	0·44
654	Lacaille 6027	7·9	1	14	31	33·08	122	49	24·0	1	0·36
655	... ...	7·8	2	14	33	10·88	121	46	24·6	2	0·36
656	Taylor 6848	7·6	1	14	33	20·03	136	43	26·0	1	0·36
657	... ...	9·0	1	14	33	25·14	126	19	54·0	1	0·43
658	α Lupi	2·6	...	14	33	25·79	136	50	13·1	2	0·40
659	5 Libræ	6·6	...	14	38	54·39	104	55	6·0	1	0·38
660	36 Böotis ε (*Mirac*) ...	2·6	...	14	39	23·79	62	23	5·4	4	0·39
661	Brisbane 5069	8·7	1	14	41	54·73	131	18	46·0	1	0·43
662	8 Libræ α^1	3·0	...	14	43	36·67	105	27	49·8	2	0·44
663	9 Libræ α^2	6·0	...	14	43	47·99	105	30	30·5	8	0·37
664	... ...	8·2	1	14	45	55·35	101	51	24·7	1	0·45
665	... ...	9·0	1	14	50	54·07	130	34	11·2	1	0·44

650—652.—Comparison stars for Comet 2, 1862.
664.—Supposed variable by Prof. Schumacher, in "Astronomisches Nachrichten No. 641."

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
631	R. P. L. 108	− 7·6958	+ 2·4452	...	+ 17·240	+ 0·567	...	...
632	... ...	+ 3·6277	+ 0·0357	...	+ 17·238	− 0·276	...	...
633	Böotis, Var. 4 ...	+ 2·9449	+ 0·0035	...	+ 17·156	− 0·229	...	...
634	98 Virginis κ... ...	+ 3·1915	+ 0·0122	− 0·000	+ 17·096	− 0·250	− 0·14	1842
635	99 Virginis ι... ...	+ 3·1396	+ 0·0102	− 0·003	+ 16·946	− 0·252	+ 0·42	1846
636	16 Böotis α	+ 2·8131	+ 0·0004	− 0·080	+ 16·922	− 0·227	+ 1·98	1847
637	... ...	+ 3·5688	+ 0·0303	...	+ 16·823	− 0·290	...	...
638	... ...	+ 3·5725	+ 0·0304	...	+ 16·840	− 0·290	...	...
639	100 Virginis λ ...	+ 3·2376	+ 0·0140	− 0·003	+ 16·811	− 0·264	− 0·03	1850
640	W. B. E. XIV. 192 ...	+ 3·2516	+ 0·0146	...	+ 16·805	− 0·266	...	...
641	... ...	+ 3·5480	+ 0·0284	...	+ 16·673	− 0·293	...	...
642	Taylor 6709	+ 3·4895	+ 0·0252	...	+ 16·604	− 0·292	...	...
643	S Böotis, Var. 2 ...	+ 2·0107	− 0·0022	...	+ 16·498	− 0·174	...	...
644	... ...	+ 3·6025	+ 0·0306	...	+ 16·426	− 0·308	...	...
645	... ...	+ 3·5701	+ 0·0285	...	+ 16·304	− 0·309	...	...
646	Lacaille 5962 ...	+ 3·7242	+ 0·0365	...	+ 16·266	− 0·324	...	...
647	... ...	+ 3·7248	+ 0·0364	...	+ 16·253	− 0·324	...	...
648	... ...	+ 3·9145	+ 0·0476	...	+ 16·212	− 0·342	...	...
649	... ...	+ 3·6014	+ 0·0297	...	+ 16·189	− 0·316	...	...
650	O. A. N. 14634 ...	+ 0·9082	+ 0·0359	...	+ 16·122	− 0·085	...	...
651	25 Böotis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·105	− 0·233	− 0·13	1869
652	O. A. N. 14652 ...	+ 0·8906	+ 0·0366	...	+ 16·062	− 0·084	...	...
653	R Böotis, Var. 1 ...	+ 2·6486	− 0·0004	...	+ 15·827	− 0·244	...	...
654	Lacaille 6027... ...	+ 3·6018	+ 0·0284	...	+ 15·827	− 0·329	...	...
655	... ...	+ 3·5854	+ 0·0274	...	+ 15·739	− 0·330	...	...
656	Taylor 6848	+ 3·9529	+ 0·0469	...	+ 15·731	− 0·364	...	...
657	... ...	+ 3·6823	+ 0·0319	...	+ 15·726	− 0·339	...	...
658	α Lupi	+ 3·9569	+ 0·0472	...	+ 15·726	− 0·364	...	...
659	5 Libræ	+ 3·3000	+ 0·0152	− 0·003	+ 15·424	− 0·314	− 0·01	1882
660	36 Böotis ε (*Mirac*) ...	+ 2·6240	− 0·0001	− 0·004	+ 15·397	− 0·252	− 0·00	1890
661	Brisbane 5069 ...	+ 3·8351	+ 0·0379	...	+ 15·254	− 0·369	...	...
662	8 Libræ α^1	+ 3·3143	+ 0·0154	− 0·010	+ 15·158	− 0·323	+ 0·09	1893
663	9 Libræ α^2	+ 3·3152	+ 0·0154	− 0·009	+ 15·147	− 0·324	+ 0·07	1894
664	... ...	− 3·2581	+ 0·0135	...	+ 15·025	− 0·321	...	...
665	... ...	+ 3·8489	+ 0·0363	...	+ 14·732	− 0·386	...	...

16·820

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
666	Taylor 6991	6·4	...	14	52	8·29	39	50	52·0	1	0·44
667	19 Libræ δ, Var. 4 ...	5·3	2	14	54	8·08	98	0	34·4	2	0·37
668	O. A. N. 15023	7·1	1	14	55	50·41	27	49	23·7	1	0·40
669	... ...	8·2	1	14	58	13·67	131	32	36·4	1	0·39
670	Taylor 7036	6·7	3	14	58	18·75	62	25	1·6	3	0·37
671	43 Böotis ψ	4·5	...	14	58	57·63	62	33	7·2	5	0·42
672	21 Libræ ν^1	5·4	...	14	59	29·33	105	45	31·9	2	0·31
673	... ...	8·2	1	15	1	23·94	97	24	14·6	1	0·51
674	W. B. E. XV. 32	8·6	1	15	3	52·43	97	3	27·0	1	0·37
675	O. A. N. 15138	9·0	1	15	4	23·74	43	1	57·4	1	0·45
676	R. P. L. 111	6·9	...	15	4	49·20	5	33	15·1	1	0·24
677	27 Libræ β	2·7	...	15	10	7·26	98	54	32·6	6	0·41
678	Taylor 8048	6·1	2	15	12	40·23	68	57	29·1	3	0·43
679	Redhill 2293	8·0	...	15	13	44·13	4	23	3·0	1	0·86
680	Lalande 28028	7·6	3	15	15	38·88	58	3	44·8	3	0·36
681	S. Cor. Bor., Var. 2 ...	8·9	2	15	16	11·03	58	10	17·0	2	0·48
682	31 Libræ ε	5·2	...	15	17	15·76	99	51	37·5	1	0·42
683	Lacaille 6377	8·0	2	15	19	25·35	130	12	37·7	2	0·45
684	Taylor 7220	8·0	1	15	22	36·66	123	8	16·8	1	0·42
685	... ...	9·0	1	15	23	7·60	151	38	44·2	1	0·51
686	38 Libræ γ	4·0	...	15	28	21·99	104	21	39·5	3	0·34
687	5 Cor. Bor. α (*Alpheta.*) ...	2·4	...	15	29	16·09	62	51	11·8	7	0·41
688	... ...	9·2	1	15	30	41·49	129	35	5·6	1	0·51
689	W. B. E. XV. 587 ...	8·0	1	15	32	19·67	103	29	11·8	1	0·35
690	Taylor 7300	7·8	1	15	32	41·62	103	38	10·6	1	0·42
691	43 Libræ κ	5·0	...	15	34	34·57	109	15	43·1	1	0·50
692	W. B. E. XV. 704 ...	9·2	1	15	37	40·53	92	36	23·7	1	0·50
693	24 Serpentis a	2·7	...	15	37	57·83	83	10	12·0	3	0·44
694	... ...	9·5	1	15	41	46·66	62	4	47·9	1	0·44
695	R. Cor. Bor., Var. 1 ...	9·0	1	15	43	17·86	61	26	58·1	1	0·31
696	W. B. E. XV. 838 ...	8·1	2	15	44	26·75	104	28	29·0	2	0·39
697	36 Serpentis b	5·2	...	15	44	35·73	92	42	5·6	1	0·41
698	R. Serpentis, Var. 2 ...	Var.	...	15	44	47·76	74	28	35·0	1	0·44
699	46 Libræ θ	4·3	...	15	46	32·40	106	21	5·9	1	0·39
700	R. P. L. 115	6·9	...	15	47	16·22	5	45	24·1	2	0·96

[47·9]

666.—Comparison star for Comet 1, 1861.
668.—Comparison star for Comet 2, 1862.
673—674—686.—Comparison stars for Comet 2, 1867.
675.—Comparison star for Comet 2, 1861.
676.—Groombridge 2213.
680.—Observed for map of S. Cor. Bor., Var. 2.
689—690—696.—Comparison stars for Asia in 1861.
697.—Comparison star for Donati's Comet of 1858.
700.—Carrington 2380.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
666	Taylor 6991	+ 1·9790	+ 0·0013	...	+ 14·659	− 0·203	...	...
667	19 Libræ δ, Var. 4 ...	+ 3·2017	+ 0·0116	− 0·006	+ 14·539	− 0·328	+ 0·01	1911
668	O. A. N. 15023 ...	+ 1·3138	+ 0·0151	...	+ 14·436	− 0·139	...	...
669	... ...	+ 3·9033	+ 0·0371	...	+ 14·290	− 0·405	...	...
670	Taylor 7036	+ 2·5820	+ 0·0011	...	+ 14·284	− 0·270	...	...
671	43 Böotis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·245	− 0·271	+ 0·01	1922
672	21 Libræ ν^1	+ 3·3384	+ 0·0153	− 0·005	+ 14·212	− 0·349	+ 0·03	1919
673	... ...	+ 3·1957	+ 0·0112	...	+ 14·095	− 0·337	...	...
674	W. B. E. XV. 32 ...	+ 3·1911	+ 0·0112	...	+ 13·939	− 0·340	...	...
675	O. A. N. 15138 ...	+ 2·0404	+ 0·0015	...	+ 13·906	− 0·220	...	...
676	R. P. L. 111	− 6·8516	+ 1·1737	...	+ 13·879	+ 0·715	...	...
677	27 Libræ β	+ 3·2267	+ 0·0117	− 0·008	+ 13·541	− 0·353	+ 0·02	1934
678	Taylor 8048	+ 2·6889	+ 0·0028	...	+ 13·376	− 0·298	...	...
679	Redhill 2293... ...	− 9·9748	+ 1·9511	...	+ 13·305	+ 1·082	...	...
680	Lalande 28028 ...	+ 2·4441	+ 0·0014	...	+ 13·180	− 0·274	...	...
681	S. Cor. Bor., Var. 2...	+ 2·4455	+ 0·0014	...	+ 13·145	− 0·275	...	...
682	31 Libræ ε	+ 3·2490	+ 0·0120	− 0·008	+ 13·008	− 0·367	+ 0·15	1944
683	Lacaille 6377 ...	+ 3·9362	+ 0·0334	...	+ 12·929	− 0·444	...	...
684	Taylor 7220	+ 3·7471	+ 0·0258	...	+ 12·715	− 0·427	...	...
685	... ...	+ 4·9915	+ 0·0862	...	+ 12·680	− 0·567	...	...
686	38 Libræ γ	+ 3·3423	+ 0·0136	+ 0·004	+ 12·321	− 0·389	− 0·02	1964
687	5 Coronæ Bor. α ...	+ 2·5296	+ 0·0023	+ 0·009	+ 12·259	− 0·297	+ 0·09	1973
688	... ...	+ 3·9512	+ 0·0314	...	+ 12·160	− 0·463	...	...
689	W. B. E. XV. 587 ...	+ 3·3287	+ 0·0131	...	+ 12·046	− 0·393	...	...
690	Taylor 7300	+ 3·3319	+ 0·0131	...	+ 12·020	− 0·393	...	...
691	43 Libræ κ	+ 3·4485	+ 0·0157	− 0·005	+ 11·888	− 0·409	+ 0·10	1981
692	W. B. E. XV. 704 ...	+ 3·1229	+ 0·0089	...	+ 11·668	− 0·375	...	...
693	24 Serpentis α ...	+ 2·9418	+ 0·0062	+ 0·008	+ 11·649	− 0·354	− 0·06	1990
694	... ...	+ 2·4888	+ 0·0027	...	+ 11·375	− 0·304	...	...
695	R. Cor. Bor., Var. 1...	+ 2·4704	+ 0·0026	...	+ 11·265	− 0·303	...	...
696	W. B. E. XV. 838 ...	+ 3·3586	+ 0·0129	...	+ 11·182	− 0·408	...	...
697	36 Serpentis b ...	+ 3·1246	+ 0·0087	− 0·008	+ 11·170	− 0·395	+ 0·02	2004
698	R. Serpentis, Var. 2...	+ 2·7687	+ 0·0043	...	+ 11·156	− 0·340	...	...
699	46 Libræ θ	+ 3·3999	+ 0·0136	+ 0·007	+ 11·080	− 0·418	− 0·13	2011
700	R. P. L. 115	− 10·3747	+ 1·5368	...	+ 10·976	+ 1·262	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
701	1 Herculis χ	4·5	...	15	48	15·04	47	11	19·7	1	0·50
702	Lalande 28970	8·0	1	15	48	19·37	70	50	32·2	1	0·38
703	16 Ursæ Minoris ζ ...	4·5	...	15	48	41·07	11	48	45·0	1	0·44
704	Lalande 29054	8·7	1	15	50	57·61	104	5	2·6	1	0·42
705	Lalande 29193	7·0	1	15	56	9·67	86	58	59·7	1	0·41
706	W. B. E. XV. 1047 ...	8·3	1	15	56	21·20	91	17	31·7	1	0·42
707	8 Scorpii β^1	3·0	...	15	57	59·81	109	27	10·9	4	0·40
708	9 Scorpii ω^1	4·1	...	15	59	19·27	110	19	14·6	2	0·31
709	O. A. S. 15281	9·0	1	16	1	25·91	105	45	4·7	1	0·43
710	Lalande 29414	8·0	1	16	2	45·91	102	32	48·5	1	0·50
711	O. A. S. 15342	9·0	1	16	3	53·85	107	46	48·9	1	0·44
712	14 Scorpii ν	4·2	...	16	4	33·50	109	7	32·7	2	0·31
713	1 Ophiuchi δ	2·8	...	16	7	38·32	93	21	47·4	6	0·48
714	O. A. S. 15504	9·8	1	16	11	49·02	106	42	40·8	1	0·44
715	O. A. S. 15613	7·5	1	16	17	43·89	113	9	45·4	1	0·41
716	7 Ophiuchi χ	5·0	...	16	19	36·31	108	9	49·7	1	0·53
717	21 Scorpii α (*Antares*) ...	1·1	...	16	21	33·72	116	8	43·7	4	0·46
718	Lalande 30042	9·0	1	16	23	0·21	48	27	55·4	1	0·50
719	9 Ophiuchi ω	4·7	...	16	24	33·08	111	11	25·3	2	0·39
720	... ...	9·0	2	16	26	57·30	130	55	55·9	2	0·57
721	23 Scorpii τ	2·9	...	16	27	55·10	117	56	53·4	1	0·50
722	... ...	8·9	1	16	29	5·99	152	17	47·3	1	0·44
723	... ...	10·0	1	16	29	42·27	130	52	22·6	1	0·51
724	Taylor 7723	5·9	1	16	34	10·38	107	29	29·2	1	0·58
725	Taylor 7724	6·4	2	16	34	22·40	109	40	37·2	2	0·39
726	40 Herculis ζ	3·1	...	16	36	27·71	58	9	50·7	7	0·48
727	... ...	8·9	2	16	37	17·16	130	58	54·8	2	0·57
728	O. A. S. 15952	5·5	...	16	39	50·85	111	56	28·2	1	0·58
729	... ...	9·0	1	16	44	57·93	131	2	22·8	1	0·44
730	... ...	...	...	16	45	8·15	130	19	1·5	1	0·50
731	S Herculis, Var. 3 ...	8·5	1	16	46	4·28	74	50	29·5	1	0·51
732	... ...	...	...	16	49	25·49	125	32	6·4	1	0·58
733	27 Ophiuchi κ	3·4	...	16	51	36·58	80	25	26·4	4	0·51
734	... ...	8·4	2	16	52	36·43	122	49	38·0	2	0·57
735	O. A. S. 16233	8·0	1	16	54	27·05	110	24	20·2	1	0·57

[22·8]

702—705—706—718.—Comparison stars for Comet 2, 1862.
704—709—714.—Comparison stars for Sappho in 1864.
710.—Comparison star for Sappho in 1871.
711.—Comparison star for Sylvia in 1866.
715.—Comparison star for Angelina in 1866.
735.—Observed for map of T Serpentis, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
701	1 Herculis χ	+ 2·0327	+ 0·0034	+ 0·037	+ 10·904	− 0·254	− 0·60	2021
702	Lalande 28970 ...	+ 2·6824	+ 0·0039	...	+ 10·899	− 0·333	...	...
703	16 Urs. Min. ζ ...	− 2·2992	+ 0·2031	+ 0·003	+ 10·873	+ 0·276	+ 0·00	2041
704	Lalande 29054 ...	+ 3·3559	+ 0·0125	...	+ 10·705	− 0·418	...	...
705	Lalande 29193 ...	+ 3·0118	+ 0·0069	...	+ 10·317	− 0·380	...	...
706	W. B. E. XV. 1047 ...	+ 3·0982	+ 0·0079	...	+ 10·303	− 0·392	...	...
707	8 Scorpii β^1	+ 3·4790	+ 0·0142	− 0·003	+ 10·178	− 0·441	+ 0·03	2034
708	9 Scorpii ω^1	+ 3·5006	+ 0·0106	− 0·003	+ 10·065	− 0·446	+ 0·02	2039
709	O. A. S. 15281 ...	+ 3·4000	+ 0·0124	...	+ 9·919	− 0·435	...	...
710	Lalande 29414 ...	+ 3·3316	+ 0·0111	...	+ 9·817	− 0·428	...	...
711	O. A. S. 15342 ...	+ 3·4471	+ 0·0130	...	+ 9·731	− 0·443	...	...
712	14 Scorpii ν	+ 3·4783	+ 0·0136	− 0·003	+ 9·680	− 0·448	+ 0·01	2055
713	1 Ophiuchi δ... ...	+ 3·1414	+ 0·0081	− 0·005	+ 9·443	− 0·408	+ 0·14	2065
714	O. A. S. 15504 ...	+ 3·4297	+ 0·0121	...	+ 9·119	− 0·449	...	...
715	O. A. S. 15613 ...	+ 3·5882	+ 0·0141	...	+ 8·655	− 0·476	...	...
716	7 Ophiuchi χ ...	+ 3·4694	+ 0·0119	− 0·004	+ 8·506	− 0·462	+ 0·02	2088
717	21 Scorpii α	+ 3·6688	+ 0·0150	− 0·002	+ 8·352	− 0·491	+ 0·03	2091
718	Lalande 30042 ...	+ 1·9924	+ 0·0040	...	+ 8·236	− 0·269	...	...
719	9 Ophiuchi ω ...	+ 3·5463	+ 0·0126	+ 0·000	+ 8·112	− 0·476	− 0·05	2095
720	... ...	+ 4·1374	+ 0·0235	...	+ 7·920	− 0·557	...	...
721	23 Scorpii τ	+ 3·7251	+ 0·0152	− 0·002	+ 7·843	− 0·502	+ 0·02	2103
722	... ...	+ 5·4207	+ 0·0614	...	+ 7·748	− 0·731	...	...
723	... ...	+ 4·1407	+ 0·0228	...	+ 7·698	− 0·561	...	...
724	Taylor 7723	+ 3·4643	+ 0·0105	...	+ 7·337	− 0·473	...	...
725	Taylor 7724	+ 3·5173	+ 0·0112	...	+ 7·319	− 0·481	...	...
726	40 Herculis ζ ...	+ 2·2966	+ 0·0033	− 0·036	+ 7·149	− 0·316	− 0·41	2127
727	... ...	+ 4·1589	+ 0·0215	...	+ 7·081	− 0·570	...	...
728	O. A. S. 15952 ...	+ 3·5782	+ 0·0114	...	+ 6·872	− 0·493	...	...
729	... ...	+ 4·1742	+ 0·0198	...	+ 6·449	− 0·579	...	...
730	... ...	+ 4·1467	+ 0·0192	...	+ 6·435	− 0·575	...	...
731	S. Herculis, Var. 3 ...	+ 2·7827	+ 0·0039	...	+ 6·357	− 0·380	...	...
732	... ...	+ 3·9822	+ 0·0156	...	+ 6·079	− 0·556	...	...
733	27 Ophiuchi κ ...	+ 2·8566	+ 0·0044	− 0·021	+ 5·896	− 0·402	− 0·02	2156
734	... ...	+ 3·8977	+ 0·0137	...	+ 5·813	− 0·547	...	...
735	O. A. S. 16233 ...	+ 3·5494	+ 0·0093	...	+ 5·658	− 0·498	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
736	... ...	8·7	2	16	56	22·91	130	55	25·3	2	0·58
737	22 Ursæ Minoris, ϵ ...	4·5	...	16	59	10·23	7	45	25·5	8	0·34
738	... ...	8·5	1	17	4	38·85	59	7	52·3	1	0·58
739	O. A. S. 16432	7·7	2	17	6	17·21	105	24	17·9	2	0·56
740	... ...	8·3	3	17	7	41·17	130	43	7·8	3	0·57
741	64 Herculis α^1, Var. 1 ...	Var.	...	17	8	48·61	75	27	42·7	4	0·56
742	... ...	9·0	1	17	9	33·15	124	4	51·8	1	0·45
743	... ...	9·5	1	17	12	32·05	130	28	13·2	1	0·59
744	42 Ophiuchi θ	3·4	...	17	14	9·00	114	52	9·2	2	0·45
745	44 Ophiuchi b	4·5	...	17	18	33·36	114	3	17·6	2	0·56
746	45 Ophiuchi d	4·4	...	17	19	10·94	119	44	54·9	1	0·53
747	... ...	8·4	1	17	21	37·75	130	44	1·1	1	0·57
748	... ...	8·9	1	17	21	46·84	130	46	6·0	1	0·58
749	... ...	8·1	1	17	21	56·17	130	33	23·6	1	0·58
750	Brisbane 6091	8·2	1	17	22	1·60	148	27	30·1	1	0·59
751	55 Ophiuchi α	2·2	...	17	28	59·56	77	20	41·7	6	0·58
752	Taylor 8141	6·4	2	17	31	3·46	111	50	4·2	3	0·54
753	56 Serpentis o	4·4	...	17	34	13·30	102	48	17·3	1	0·59
754	... ...	9·0	1	17	34	45·82	128	57	47·0	1	0·58
755	... ...	8·6	2	17	40	16·65	127	14	50·3	2	0·56
756	86 Herculis μ	3·5	...	17	41	26·92	62	12	10·7	5	0·59
757	... ...	8·0	2	17	43	53·92	128	36	24·1	2	0·58
758	... ...	8·2	1	17	45	34·61	128	35	30·5	1	0·59
759	... ...	9·2	1	17	48	45·68	152	8	40·8	1	0·62
760	Taylor 8288	7·0	1	17	48	57·31	105	47	17·1	1	0·61
761	4 Sagittarii b	4·6	...	17	51	58·77	113	48	5·9	1	0·39
762	... ...	9·0	1	17	52	33·01	130	49	34·7	1	0·58
763	9 Sagittarii	5·7	...	17	56	1·52	114	21	38·7	3	0·52
764	10 Sagittarii γ^1, Var. 6 ...	3·0	...	17	56	50·68	119	34	59·8	2	0·55
765	Bonn +30°.3133... ...	8·0	1	18	3	21·73	59	1	9·5	1	0·56
766	T Herculis, Var. 4 ...	9·7	2	18	4	15·42	95	0	0·1	2	0·62
767	13 Sagittarii μ	4·1	...	18	6	6·52	111	5	24·0	7	0·57
768	... ...	7·9	1	18	7	15·47	122	22	39·1	1	0·58
769	23 Ursæ Minoris δ ...	4·3	...	18	13	38·10	3	23	36·1	3	0·35
770	21 Sagittarii	4·9	...	18	17	43·63	110	36	29·7	1	0·59

755—757—758.—Comparison stars for Donati's Comet of 1858.
765.—Observed for map of T Herculis, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
736	... ...	+ 4·1871	+ 0·0171	...	+ 5·496	− 0·589	...	...
737	22 Urs. Min. *e* ...	− 6·3984	+ 0·3063	+ 0·009	+ 5·261	+ 0·898	+ 0·00	2201
738	... ...	+ 2·2962	+ 0·0031	...	+ 4·797	− 0·327	...	...
739	O. A. S. 16432 ...	+ 3·4304	+ 0·0070	...	+ 4·658	− 0·489	...	...
740	... ...	+ 4·1931	+ 0·0144	...	+ 4·538	− 0·597	...	...
741	64 Herculis a^1, Var. 1.	+ 2·7341	+ 0·0035	− 0·002	+ 4·442	− 0·391	− 0·03	2183
742	... ...	+ 3·9549	+ 0·0113	...	+ 4·379	− 0·565	...	...
743	... ...	+ 4·1885	+ 0·0132	...	+ 4·124	− 0·599	...	...
744	42 Ophiuchi *θ* ...	+ 3·6795	+ 0·0080	− 0·002	+ 3·986	− 0·528	+ 0·04	2189
745	44 Ophiuchi *b* ...	+ 3·6593	+ 0·0073	− 0·003	+ 3·607	− 0·527	− 0·01	2198
746	45 Ophiuchi *d* ...	+ 3·8242	+ 0·0084	− 0·003	+ 3·552	− 0·551	+ 0·15	2200
747	... ...	+ 4·2075	+ 0·0111	...	+ 3·342	− 0·605	...	...
748	... ...	+ 4·2090	+ 0·0111	...	+ 3·329	− 0·606	...	...
749	... ...	+ 4·2006	+ 0·0109	..	+ 3·316	− 0·605	...	...
750	Brisbane 6091 ...	+ 5·2205	+ 0·0227	...	+ 3·307	− 0·753	...	...
751	55 Ophiuchi *α* ...	+ 2·7747	+ 0·0030	+ 0·007	+ 2·705	− 0·402	− 0·22	2218
752	Taylor 8141	+ 3·6035	+ 0·0054	...	+ 2·526	− 0·522	...	...
753	56 Serpentis *o* ...	+ 3·3742	+ 0·0041	− 0·006	+ 2·251	− 0·490	+ 0·04	2225
754	... ...	+ 4·1469	+ 0·0075	...	+ 2·203	− 0·612	...	...
755	... ...	+ 4·0851	+ 0·0060	...	+ 1·723	− 0·594	...	...
756	86 Herculis *μ* ...	+ 2·3696	+ 0·0025	− 0·024	+ 1·621	− 0·346	+ 0·75	2237
757	... ...	+ 4·1372	+ 0·0052	...	+ 1·408	− 0·603	...	...
758	... ...	+ 4·1370	+ 0·0049	...	+ 1·262	− 0·603	...	...
759	... ...	+ 5·5991	+ 0·0090	...	+ 0·983	− 0·815	...	...
760	Taylor 8288	+ 3·4497	+ 0·0029	...	+ 0·966	− 0·503	...	...
761	4 Sagittarii *b* ...	+ 3·6617	+ 0·0028	− 0·001	+ 0·702	− 0·534	+ 0·05	2246
762	... ...	+ 4·2267	+ 0·0037	...	+ 0·651	− 0·614	...	...
763	9 Sagittarii	+ 3·6774	+ 0·0022	− 0·003	+ 0·348	− 0·536	+ 0·01	2260
764	10 Sagittarii γ^1, Var. 6.	+ 3·8310	+ 0·0021	− 0·005	+ 0·276	− 0·559	+ 0·21	2266
765	Bonn + 30°. 3133 ...	+ 2·2696	+ 0·0022	...	− 0·293	− 0·331	...	...
766	T. Herculis, Var. 4 ...	+ 2·2690	+ 0·0021	...	− 0·372	− 0·331	...	...
767	13 Sagittarii *μ* ...	+ 3·5876	+ 0·0009	− 0·001	− 0·534	− 0·523	− 0·00	2284
768	... ...	+ 3·9194	+ 0·0001	...	− 0·636	− 0·571	...	...
769	23 Urs. Min. *δ* ...	− 19·4343	− 0·3982	+ 0·026	− 1·192	+ 2·831	− 0·04	2395
770	21 Sagittarii... ...	+ 3·5735	− 0·0004	− 0·002	− 1·549	− 0·519	+ 0·00	2303

Mean Positions of Stars for 1872, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
					h.	*m.*	*s.*	°	′	″		
	771	22 Sagittarii λ	3·1	...	18	20	4·37	115	29	22·0	2	0·59
	772	Taylor 8516—2nd ...	6·0	1	18	22	28·78	104	39	50·1	1	0·53
	773	... ...	9·0	2	18	23	26·90	135	15	31·7	2	0·67
	774	O. A. S. 18326	8·7	1	18	23	51·81	109	14	40·9	1	0·62
	775	U Sagittarii, Var. 4 ...	7·2	1	18	24	20·94	109	12	43·2	1	0·63
	776	... ...	9·9	1	18	29	58·23	135	12	7·6	1	0·67
	777	3 Lyræ α *(Vega)*	0·2	...	18	32	36·21	51	20	3·7	9	0·59
	778	... ...	8·5	1	18	35	14·64	118	34	15·0	1	0·39
	779	... ...	9·7	1	18	35	35·67	137	15	53·5	1	0·62
	780	Lacaille 7832	7·9	3	18	38	18·04	149	5	3·7	3	0·67
	781	10 Lyræ β, Var. 1 ...	Var.	...	18	45	21·22	56	47	4·2	8	0·59
26·76	782	32 Sagittarii γ^1	5·0	...	18	46	26·76	112	53	59·4	1	0·68
	783	Lacaille 7919	8·0	1	18	48	16·10	129	4	35·0	1	0·66
	784	13 Lyræ, Var. 2	Var.	...	18	51	26·30	46	13	15·6	1	0·67
	785	R. P. L. 131	6·6	...	18	56	24·99	3	27	21·7	1	0·10
34·35	786	O. A. S. 19032	9·2	2	18	57	34·35	111	16	16·8	2	0·68
	787	17 Aquilæ ζ	3·1	...	18	59	31·57	76	19	30·9	8	0·62
	788	Bonn +7°. 3971	9·4	2	19	1	15·27	82	0	49·0	2	0·66
	789	41 Sagittarii π	3·1	...	19	2	9·16	111	13	28·0	1	0·39
43·05	790	... ...	8·0	1	19	3	42·99	139	22	0·3	1	0·68
	791	42 Sagittarii ψ	5·2	...	19	7	41·44	115	28	30·0	2	0·62
	792	R. Sagittarii, Var. 1 ...	9·2	1	19	9	11·21	109	31	49·4	1	0·62
	793	25 Aquilæ ω	5·1	...	19	11	48·46	78	37	59·6	4	0·62
10·97	794	Lacaille 8074	6·7	3	19	13	10·96	132	15	8·3	3	0·68
22·87	795	45 Sagittarii ρ^2	6·1	...	19	14	22·84	108	32	36·4	2	0·68
	796	30 Aquilæ δ	3·5	...	19	19	2·59	87	8	18·2	4	0·64
	797	... ...	9·5	2	19	19	42·28	128	37	32·0	2	0·65
47·05	798	Taylor 8950	6·0	...	19	22	46·31	143	27	8·7	1	0·61
26·97	799	... ...	8·9	2	19	25	28·95	129	54	57·8	2	0·68
42·48	800	... ...	9·0	1	19	25	42·48	127	48	21·4	1	0·68
	801	... ...	7·6	1	19	26	10·04	131	23	49·5	1	0·56
18·30	802	51 Sagittarii h^1	5·8	...	19	28	15·29	114	59	49·7	3	0·68
	803	52 Sagittarii h^2	4·6	...	19	28	54·91	115	9	48·4	3	0·64
	804	R. Cygni, Var. 3	9·9	2	19	33	25·33	40	3	44·7	2	0·64
	805	... ...	8·0	1	19	34	22·44	127	44	11·9	1	0·67

774.—Observed for map of U Sagittarii, Var. 5.
776.—Comparison star for Donati's Comet of 1858.
778.—Comparison star for Amphitrite in 1863.
785.—Carrington 2882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
771	22 Sagittarii λ ...	+ 3·7071	− 0·0013	− 0·005	− 1·754	− 0·537	+ 0·20	2310
772	Taylor 8516—2nd ...	+ 3·4203	− 0·0005	...	− 1·964	− 0·495	...	...
773	... ...	+ 4·4142	− 0·0059	...	− 2·048	− 0·640	...	...
774	O. A. S. 18326 ...	+ 3·5364	− 0·0010	...	− 2·084	− 0·512	...	...
775	U Sagittarii, Var. 5...	+ 3·5354	− 0·0011	...	− 2·126	− 0·512	...	...
776	... ...	+ 4·4071	− 0·0078	...	− 2·615	− 0·636	...	...
777	3 Lyræ α (*Vega*) ...	+ 2·0132	+ 0·0016	+ 0·017	− 2·844	− 0·290	− 0·30	2341
778	... ...	+ 3·7916	− 0·0040	...	− 3·072	− 0·546	...	...
779	... ...	+ 4·5019	− 0·0103	...	− 3·101	− 0·648	...	...
780	Lacaille 7832 ...	+ 5·2737	− 0·0210	...	− 3·336	− 0·758	...	...
781	10 Lyræ β, Var. 1 ...	+ 2·2139	+ 0·0015	− 0·001	− 3·943	− 0·315	− 0·02	2369
782	32 Sagittarii γ^1 ...	+ 3·6254	− 0·0043	− 0·003	− 4·036	− 0·516	+ 0·02	2364
783	Lacaille 7919 ...	+ 4·1338	− 0·0098	...	− 4·192	− 0·588	...	...
784	13 Lyræ, Var. 2 ...	+ 1·8233	+ 0·0008	+ 0·001	− 4·463	− 0·257	− 0·07	2389
785	R. P. L. 131	− 18·4008	− 1·5569	...	− 4·888	+ 2·603	...	...
786	O. A. S. 19032 ...	+ 3·5763	− 0·0053	...	− 4·985	− 0·503	...	...
787	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·151	− 0·387	+ 0·09	2405
788	Bonn +7°.3971 ...	+ 2·8914	− 0·0004	...	− 5·295	− 0·405	...	...
789	41 Sagittarii π ...	+ 3·5725	− 0·0057	− 0·002	− 5·372	− 0·500	+ 0·03	2406
790	... ...	+ 4·5704	− 0·0208	...	− 5·504	− 0·640	...	...
791	42 Sagittarii ψ ...	+ 3·6815	− 0·0075	+ 0·000	− 5·838	− 0·510	+ 0·03	2418
792	R Sagittarii, Var. 1...	+ 3·5251	− 0·0060	...	− 5·962	− 0·488	...	...
793	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·181	− 0·388	− 0·03	2432
794	Lacaille 8074 ...	+ 4·2253	− 0·0174	...	− 6·295	− 0·582	...	...
795	45 Sagittarii ρ^2 ...	+ 3·4984	+ 0·0062	+ 0·006	− 6·394	− 0·481	+ 0·07	2436
796	30 Aquilæ δ	+ 3·0093	− 0·0018	+ 0·015	− 6·781	− 0·410	− 0·09	2451
797	... ...	+ 4·0765	− 0·0161	...	− 6·834	− 0·556	...	...
798	Taylor 8950	+ 4·7596	− 0·0327	...	− 7·087	− 0·647	...	...
799	... ...	+ 4·1138	− 0·0181	...	− 7·308	− 0·557	...	...
800	... ...	+ 4·0378	− 0·0167	...	− 7·326	− 0·545	...	...
801	... ...	+ 4·1676	− 0·0196	...	− 7·404	− 0·562	...	...
802	51 Sagittarii h^1 ...	+ 3·6498	− 0·0100	− 0·001	− 7·533	− 0·491	+ 0·02	2475
803	52 Sagittarii h^2 ...	+ 3·6535	− 0·0102	+ 0·002	− 7·587	− 0·490	+ 0·01	2478
804	R Cygni, Var. 3 ...	+ 1·6128	− 0·0015	...	− 7·950	− 0·213	...	...
805	... ...	+ 4·0204	− 0·0182	...	− 8·027	− 0·535	...	...

Mean Positions of Stars for 1872, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
806	... ...	8·7	1	19	34	55·54	127	15	57·9	1	0·68
807	50 Aquilæ γ	2·8	...	19	40	10·43	79	41	48·5	7	0·68
808	S Vulpeculæ, Var. 2 ...	9·5	1	19	43	8·93	63	1	50·3	1	0·67
809	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	32·25	81	28	3·8	4	0·59
810	57 Sagittarii	6·2	...	19	44	45·67	109	22	5·2	1	0·56
811	χ Cygni, Var. 2	5·4	2	19	45	38·62	57	24	30·7	2	0·67
812	O. A. S. 20055	8·8	1	19	46	46·94	107	44	35·6	1	0·68
813	60 Aquilæ β	4·0	...	19	49	1·52	83	54	40·6	6	0·69
814	... ...	8·3	2	19	50	12·58	145	55	36·1	2	0·68
815	λ Ursæ Minoris	6·5	...	19	52	19·15	1	4	35·1	2	0·02
816	... ...	9·5	1	19	54	16·57	107	11	1·6	1	0·69
817	... ...	9·0	2	19	59	48·18	129	10	4·3	2	0·68
818	... ...	8·0	1	20	4	50·88	147	13	12·1	1	0·68
819	Lacaille 8370	7·0	1	20	7	40·18	152	17	49·6	1	0·67
820	R Sagittarii, Var. 1 ...	9·3	1	20	8	13·75 ?	73	39	36·0	1	0·59
821	O. A. S. 20356	8·0	1	20	8	49·44	110	24	41·3	1	0·69
822	5 Capricorni α^1	4·5	...	20	10	33·17	102	54	5·2	1	0·69
823	6 Capricorni α^2	3·8	...	20	10	57·02	102	56	23·4	5	0·70
824	9 Capricorni β	3·4	...	20	13	48·97	105	11	1·0	1	0·68
825	Lalande 39125	8·6	1	20	15	58·58	106	11	51·7	1	0·67
826	... ...	9·2	1	20	16	10·95	106	16	9·1	1	0·68
827	11 Capricorni ρ	5·0	...	20	21	33·47	108	14	5·6	5	0·69
828	24 Cephei	8·7	1	20	22	2·49	1	15	32·5	2	0·15
829	... ...	8·7	1	20	23	29·53	125	56	54·3	1	0·70
830	... ...	8·0	2	20	26	49·66	150	16	43·2	2	0·68
831	... ...	8·2	1	20	26	51·03	121	11	5·9	2	0·64
832	R. P. L. 143	6·7	...	20	28	34·11	5	16	50·6	1	0·70
833	15 Capricorni υ	5·3	...	20	32	45·75	108	35	14·9	2	0·68
834	50 Cygni α (*Deneb*) ...	1·5	...	20	37	4·09	45	10	34·1	2	0·69
835	W. B. E. XX. 935 ...	8·9	2	20	37	9·92	73	21	22·0	2	0·68
836	... ...	9·1	1	20	38	44·41	143	1	35·1	1	0·74
837	O. A. S. 20841	8·0	2	20	39	41·64	116	52	54·7	2	0·70
838	32 Vulpeculæ	5·1	...	20	49	6·29	62	25	40·9	6	0·68
839	... ...	9·6	2	20	59	12·92	148	50	44·3	2	0·71
840	... ...	8·8	2	21	1	2·26	120	2	52·4	2	0·70

812—817.—Comparison stars for Hestia in 1869.
821.—Comparison star for Parthenope in 1862.
825—826.—Comparison stars for Hestia in 1865.
832.—Carrington 3128.
837.—Comparison star for Undine in 1867.
840.—Comparison star for Sylvia in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
806	... ...	+ 4·0034	− 0·0179	...	− 8·071	− 0·533	...	...
807	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·489	− 0·373	− 0·01	2511
808	S Vulpeculæ, Var. 2..	+ 2·4597	+ 0·0011	...	− 8·722	− 0·319	...	...
809	53 Aquilæ α	+ 2·8920	− 0·0014	+ 0·035	− 8·834	− 0·374	− 0·38	2524
810	57 Sagittarii	+ 3·4939	− 0·0094	− 0·001	− 8·851	− 0·454	+ 0·05	2522
811	χ Cygni, Var. 2 ...	+ 2·3068	+ 0·0013	...	− 8·920	− 0·297	...	...
812	O. A. S. 20055 ...	+ 3·4543	− 0·0088	...	− 9·009	− 0·446	...	...
813	60 Aquilæ β	+ 2·9454	− 0·0020	+ 0·001	− 9·185	− 0·378	+ 0·47	2538
814	... ...	+ 4·8246	− 0·0479	...	− 9·276	− 0·621	...	...
815	λ Ursæ Minoris ...	− 59·7092	− 29·8137	− 0·050	− 9·440	+ 7·686	+ 0·00	2795
816	... ...	+ 3·4354	− 0·0092	...	− 9·590	− 0·437	...	...
817	... ...	+ 4·0159	− 0·0238	...	− 10·012	− 0·504	...	...
818	... ...	+ 4·8480	− 0·0563	...	− 10·392	− 0·602	...	...
819	Lacaille 8370 ...	+ 5·2334	− 0·0772	...	− 10·603	− 0·643	...	...
820	R Sagittarii, Var. 1 ..	+ 2·7399	− 0·0020	...	− 10·634	− 0·186	...	...
821	O. A. S. 20356 ...	+ 3·4931	− 0·0115	...	− 10·689	− 0·427	...	...
822	5 Capricorni α^1 ...	+ 3·3301	− 0·0084	− 0·001	− 10·816	− 0·406	− 0·03	2593
823	6 Capricorni α^2 ...	+ 3·3306	− 0·0084	+ 0·002	− 10·846	− 0·403	− 0·02	2595
824	9 Capricorni β ...	+ 3·3749	− 0·0095	+ 0·001	− 11·055	− 0·406	− 0·02	2609
825	Lalande 39125 ...	+ 3·3942	− 0·0101	...	− 11·212	− 0·406	...	...
826	... ...	+ 3·3955	− 0·0101	...	− 11·227	− 0·406	...	...
827	11 Capricorni ρ ...	+ 3·4312	− 0·0115	− 0·003	− 11·614	− 0·403	+ 0·01	2626
828	24 Cephei	− 46·4200	− 24·6138	...	− 11·647	+ 5·517	...	...
829	... ...	+ 3·8578	− 0·0237	...	− 11·752	− 0·451	...	...
830	... ...	+ 4·9498	− 0·0747	...	− 11·987	− 0·575	...	...
831	... ...	+ 3·7209	− 0·0200	...	− 11·988	− 0·431	...	...
832	R. P. L. 143	− 8·4581	− 1·2692	...	− 12·109	+ 0·988	...	...
833	15 Capricorni υ ...	+ 3·4256	− 0·0122	− 0·003	− 12·399	− 0·388	− 0·01	2657
834	50 Cygni α (*Deneb*) ...	+ 2·0434	+ 0·0021	− 0·000	− 12·693	− 0·226	− 0·00	2679
835	W. B. E. XX. 935 ...	+ 2·7629	+ 0·0002	...	− 12·699	− 0·307	...	...
836	... ...	+ 4·4389	− 0·0530	...	− 12·806	− 0·495	...	...
837	O. A. S. 20841 ...	+ 3·5919	− 0·0177	...	− 12·871	− 0·397	...	...
838	32 Vulpeculæ ...	+ 2·5556	+ 0·0026	− 0·002	− 13·491	− 0·270	+ 0·00	2709
839	... ...	+ 4·6415	− 0·0757	...	− 14·131	− 0·476	...	...
840	... ...	+ 3·6166	− 0·0215	...	− 14·245	− 0·366	...	...

Mean Positions of Stars for 1872, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
	841	61 Cygni—2nd	6·3	...	21	1	11·18	51	52	51·3	1	0·77
	842	... ...	9·0	1	21	1	40·52	119	58	30·4	1	0·70
37·23	843	13 Aquarii ν	4·6	...	21	2	37·243	101	53	18·1	1	0·69
31·84	844	... ...	9·4	1	21	11	31·889	129	29	56·2	1	0·69
	845	... ...	9·5	2	21	14	18·30	128	58	21·5	2	0·72
7·01	846	32 Capricorni ι	4·4	...	21	15	7·021	107	22	41·1	1	0·69
	847	22 Aquarii β	3·1	...	21	24	49·13	96	7	58·7	5	0·71
	848	... ...	9·5	1	21	27	35·15	132	36	13·7	1	0·66
	849	... ...	8·5	1	21	30	0·33	134	0	22·6	1	0·67
	850	... ...	8·7	1	21	30	19·27	98	23	17·3	1	0·71
	851	8 Pegasi ϵ	2·4	...	21	37	53·94	80	42	38·8	7	0·74
14·84	852	51 Capricorni μ	5·2	...	21	46	19·064	104	9	10·2	1	0·69
	853	16 Pegasi	5·0	...	21	47	14·28	64	40	35·8	10	0·71
17·59	854	... ...	9·5	1	21	53	17·569	136	35	56·6	1	0·68
	855	ϵ Indi	6·0	1	21	53	33·43	147	18	39·6	2	0·76
41·53	856	31 Aquarii o	4·7	...	21	56	41·523	92	46	21·3	3	0·68
12·50	857	32 Aquarii...	5·2	...	21	58	12·4850	91	31	27·8	2	0·68
	858	34 Aquarii α	3·2	...	21	59	12·58	90	56	27·6	4	0·71
	859	... ...	8·0	1	22	0	26·14	115	0	56·0	1	0·74
	860	... ...	10·0	1	22	2	27·31	114	57	30·8	1	0·77
	861	... ...	10·0	1	22	2	28·28	114	52	27·0	1	0·76
	862	O. A. S. 22014	7·4	...	22	7	37·52	114	38	18·8	1	0·77
4·64	863	43 Aquarii θ	4·3	...	22	10	4·679	98	25	10·0	5	0·70
	864	O. A. S. 22070	8·6	2	22	12	20·35	114	26	36·3	2	0·76
	865	... ...	9·9	2	22	19	32·63	88	40	24·3	2	0·78
	866	... ...	9·1	2	22	19	53·35	88	40	52·0	3	0·77
	867	55 Aquarii ζ	3·8	...	22	22	14·312	90	40	27·3	3	0·67
14·32	868	R. P. L. 150	5·4	...	22	23	8·94	4	32	18·1	2	0·23
	869	O. A. S. 22193	7·3	2	22	23	46·70	116	43	36·8	2	0·80
10·68	870	... ...	8·0	1	22	24	10·656	130	38	2·9	1	0·69
	871	62 Aquarii η	4·2	...	22	28	46·61	90	46	36·4	6	0·80
	872	T Aquarii, Var. 3... ...	10·4	1	22	29	10·64	98	15	58·8	1	0·83
	873	63 Aquarii κ	5·5	...	22	30	7·56	94	53	14·7	1	0·67
	874	42 Pegasi ζ	3·6	...	22	35	4·69	79	50	10·4	6	0·76
	875	67 Aquarii...	6·2	...	22	36	33·27	97	37	56·4	3	0·72

842.—Comparison star for Sylvia in 1867.
857.—Comparison star for Encke's Comet in 1862.
859—860—861—862—864.—Comparison stars for D'Arrest's Comet in 1870.
866.—Comparison star for Sappho in 1868.
868.—Groombridge 3820.
869—Comparison star for Isis in 1864.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
841	61 Cygni—2nd ...	+ 2·3343	+ 0·0044	+ 0·350	− 14·256	− 0·233	− 3·03	2745
842	... ...	+ 3·6134	− 0·0214	...	− 14·284	− 0·365	...	...
843	13 Aquarii ν... ...	+ 3·2690	− 0·0098	+ 0·004	− 14·341	− 0·328	+ 0·01	2747
844	... .	+ 3·8113	− 0·0320	...	− 14·876	− 0·368	...	...
845	... ...	+ 3·7878	− 0·0315	...	− 15·038	− 0·360	...	...
846	32 Capricorni ι ...	+ 3·3479	− 0·0130	− 0·000	− 15·085	− 0·316	− 0·01	2772
847	22 Aquarii β... ...	+ 3·1621	− 0·0071	− 0·001	− 15·631	− 0·282	+ 0·00	2797
848	... ...	+ 3·8310	− 0·0371	...	− 15·781	− 0·339	...	...
849	... ...	+ 3·8583	− 0·0394	...	− 15·911	− 0·337	..	...
850	... ...	+ 3·1920	− 0·0082	...	− 15·928	− 0·276	...	...
851	8 Pegasi ϵ	+ 2·9451	− 0·0005	+ 0·001	− 16·322	− 0·242	− 0·01	2835
852	51 Capricorni μ ...	+ 3·2579	− 0·0113	+ 0·018	− 16·739	− 0·255	− 0·01	2860
853	16 Pegasi	+ 2·7258	+ 0·0052	− 0·001	− 16·783	− 0·210	+ 0·00	2864
854	... ...	+ 3·8146	− 0·0441	...	− 17·066	− 0·286	...	...
855	ϵ Indi...	+ 4·1645	− 0·0724	+ 0·480	− 17·077	− 0·313	+ 2·45	Stone
856	31 Aquarii o... ...	+ 3·1054	− 0·0051	− 0·001	− 17·221	− 0·226	+ 0·00	2883
857	32 Aquarii	+ 3·0902	− 0·0045	− 0·002	− 17·288	− 0·222	+ 0·03	2887
858	34 Aquarii α... ...	+ 3·0832	− 0·0041	− 0·001	− 17·333	− 0·219	− 0·00	2890
859	... ...	+ 3·3830	− 0·0183	...	− 17·387	− 0·239	...	...
860	... ...	+ 3·3774	− 0·0155	...	− 17·475	− 0·233	...	...
861	... ...	+ 3·3763	− 0·0182	...	− 17·475	− 0·233	...	...
862	O. A. S. 22014 ...	+ 3·3608	− 0·0179	...	− 17·692	− 0·222	...	...
863	43 Aquarii θ... ...	+ 3·1635	− 0·0075	+ 0·006	− 17·792	− 0·205	+ 0·02	2929
864	O. A. S. 22070 ...	+ 3·3472	− 0·0177	...	− 17·883	− 0·212	...	...
865	... ...	+ 3·0590	− 0·0025	...	− 18·159	− 0·181	...	...
866	... ...	+ 3·0591	− 0·0025	...	− 18·172	− 0·180	...	...
867	55 Aquarii ζ... ...	+ 3·0787	− 0·0033	+ 0·011	− 18·257	− 0·178	− 0·04	2960
868	R. P. L. 150	− 3·8373	− 1·2007	+ 0·052	− 18·290	+ 0·238	− 0·04	2993
869	O. A. S. 22193 ...	+ 3·3466	− 0·0193	...	− 18·313	− 0·191	...	...
870	... ...	+ 3·5380	− 0·0337	...	− 18·327	− 0·202	...	...
871	62 Aquarii η ...	+ 3·0792	− 0·0031	+ 0·004	− 18·487	− 0·166	+ 0·05	2979
872	T Aquarii, Var. 3 ...	+ 3·1472	− 0·0072	...	− 18·500	− 0·170	...	...
873	63 Aquarii κ... ...	+ 3·1154	− 0·0051	− 0·006	− 18·565	− 0·164	+ 0·11	2983
874	42 Pegasi ζ	+ 2·9853	+ 0·0023	+ 0·004	− 18·694	− 0·149	+ 0·02	2992
875	67 Aquarii	+ 3·1360	− 0·0063	− 0·003	− 18·740	− 0·155	− 0·02	3001

855.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
876	71 Aquarii τ^2	4·1	...	22	42	48·74	104	16	3·4	2	0·79
877	... ...	10·0	1	22	44	35·08	135	34	41·5	1	0·83
878	73 Aquarii λ	3·8	...	22	45	56·13	98	15	37·2	2	0·81
879	74 Aquarii	5·8	...	22	46	44·28	102	17	49·2	2	0·83
880	O. A. S. 22487	9·0	1	22	48	14·40	114	39	0·1	1	0·77
881	O. A. S. 22497	8·8	2	22	49	18·72	114	49	58·6	2	0·83
882	24 Pis. Aus. α (*Fomalhaut*)	1·3	...	22	50	34·38	120	18	1·0	3	0·75
883	... ...	10·5	2	22	55	5·83	101	40	31·2	2	0·82
884	53 Pegasi β, Var. 1 ...	Var.	...	22	57	34·23	62	36	40·5	4	0·83
885	... ...	10·0	1	22	57	34·82	57	9	29·9	1	0·83
886	54 Pegasi α (*Markab*) ...	2·6	...	22	58	23·10	75	28	59·1	5	0·79
887	91 Aquarii ψ^1	4·5	...	23	9	11·07	99	47	6·2	3	0·81
888	6 Piscium γ	3·8	...	23	10	31·75	87	25	0·5	3	0·83
889	... ...	8·1	3	23	11	3·46	150	41	58·2	3	0·80
890	93 Aquarii ψ^2	4·5	...	23	11	15·08	99	52	51·7	2	0·86
891	... ...	9·2	1	23	11	34·25	151	13	6·9	1	0·83
892	... ...	9·1	1	23	12	4·16	129	55	17·8	1	0·85
893	96 Aquarii	5·7	...	23	12	45·69	95	49	24·2	1	0·74
894	O. A. S. 22814	6·2	4	23	17	22·98	109	23	33·2	5	0·83
895	... ...	10·1	1	23	18	41·07	131	5	52·3	1	0·83
896	... ...	10·2	3	23	20	8·57	109	16	42·6	3	0·82
897	8 Piscium κ	5·0	...	23	20	22·25	89	26	41·7	2	0·85
898	10 Piscium θ	4·4	...	23	21	28·54	84	19	25·3	2	0·82
899	... ...	8·6	4	23	26	2·42	108	31	5·7	5	0·81
900	... ...	9·0	1	23	26	10·78	108	45	29·1	1	0·77
901	R. P. L. 158	5·6	...	23	27	48·87	3	23	55·4	1	0·22
902	... ...	9·0	1	23	30	6·33	130	4	26·8	1	0·85
903	17 Piscium ι	4·3	...	23	33	21·98	85	4	2·0	8	0·82
904	... ...	10·3	1	23	35	28·32	107	46	33·2	1	0·83
905	18 Piscium λ	4·7	...	23	35	30·93	88	55	27·6	1	0·87
906	... ...	10·0	1	23	35	37·23	107	46	47·7	1	0·79
907	... ...	10·0	1	23	35	52·83	107	51	48·1	1	0·83
908	R. Aquarii, Var. 1 ...	9·8	1	23	37	11·68	105	59	39·9	1	0·83
909	δ Sculptoris	4·6	...	23	42	15·41	118	50	18·3	2	0·79
910	21 Piscium	6·1	...	23	42	54·26	89	38	5·2	4	0·85

879.—Comparison star for Mars in 1877.
880—881.—Comparison stars for Isis in 1864.
894—896—900—904—906—907.—Comparison stars for D'Arrest's in 1870.
901.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
876	71 Aquarii τ^2 ...	+ 3·1848	− 0·0098	− 0·003	− 18·928	− 0·146	+ 0·04	3013
877	... ...	+ 3·5130	− 0·0394	...	− 18·978	− 0·158	....	...
878	73 Aquarii λ... ...	+ 3·1338	− 0·0063	− 0·002	− 19·016	− 0·137	− 0·04	3019
879	74 Aquarii	+ 3·1637	− 0·0085	+ 0·000	− 19·039	− 0·137	+ 0·01	3021
880	O. A. S. 22487 ...	+ 3·2611	− 0·0166	...	− 19·079	− 0·138	...	...
881	O. A. S. 22497 ...	+ 3·2600	− 0·0168	...	− 19·109	− 0·136	...	...
882	24 Piscis Australis α..	+ 3·3052	− 0·0210	+ 0·023	− 19·142	− 0·135	+ 0·16	3032
883	... ...	+ 3·1494	− 0·0078	...	− 19·256	− 0·121	...	...
884	53 Pegasi β, Var. 1 ...	+ 2·8859	+ 0·0117	+ 0·013	− 19·315	− 0·106	− 0·13	3047
885	... ...	+ 2·8400	+ 0·0144	...	− 19·315	− 0·104	...	...
886	54 Pegasi α	+ 2·9802	+ 0·0056	+ 0·003	− 19·334	− 0·107	+ 0·03	3050
887	91 Aquarii ψ^1 ...	+ 3·1229	− 0·0061	+ 0·024	− 19·564	− 0·093	+ 0·01	3078
888	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·590	− 0·087	− 0·02	3082
889	... ...	+ 3·5771	− 0·0704	...	− 19·599	− 0·104	...	...
890	93 Aquarii ψ^2 ...	+ 3·1214	− 0·0061	+ 0·000	− 19·602	− 0·088	+ 0·02	3083
891	... ...	+ 3·5827	− 0·0721	...	− 19·608	− 0·103	...	...
892	... ...	+ 3·3044	− 0·0290	...	− 19·618	− 0·093	...	...
893	96 Aquarii	+ 3·1001	− 0·0038	+ 0·011	− 19·630	− 0·085	− 0·00	3090
894	O. A. S. 22814 ...	+ 3·1585	− 0·0113	...	− 19·713	− 0·077	...	...
895	... ...	+ 3·2813	− 0·0304	...	− 19·730	− 0·078	...	...
896	... ...	+ 3·1530	− 0·0111	...	− 19·752	− 0·071	...	...
897	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·756	− 0·069	+ 0·10	3116
898	10 Piscium θ... ...	+ 3·0490	+ 0·0026	− 0·010	− 19·772	− 0·067	+ 0·05	3120
899	... ...	+ 3·1382	− 0·0103	...	− 19·835	− 0·058	...	...
900	... ...	+ 3·1389	− 0·0104	...	− 19·836	− 0·058	...	...
901	R. P. L. 158	− 0·0786	− 0·5210	+ 0·084	− 19·857	+ 0·011	− 0·01	Main
902	... ...	+ 3·2184	− 0·0272	...	− 19·885	− 0·052	...	...
903	17 Piscium ι ...	+ 3·0587	+ 0·0030	+ 0·023	− 19·920	− 0·042	+ 0·44	3148
904	... ...	+ 3·1179	− 0·0092	...	− 19·940	− 0·039	...	...
905	18 Piscium λ... ...	+ 3·0696	+ 0·0011	− 0·011	− 19·940	− 0·039	+ 0·14	3158
906	... ...	+ 3·1176	− 0·0092	...	− 19·941	− 0·039	...	...
907	... ...	+ 3·1174	− 0·0093	...	− 19·944	− 0·038	...	...
908	R Aquarii, Var. 1 ...	+ 3·1093	− 0·0081	...	− 19·954	− 0·036	...	...
909	δ Sculptoris	+ 3·1291	− 0·0161	+ 0·009	− 19·994	− 0·026	+ 0·10	Stone
910	21 Piscium	+ 3·0715	+ 0·0011	− 0·002	− 19·999	− 0·025	+ 0·03	3167

909.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1872, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
911	... ...	9·0	1	23	43	12·29	129	41	12·1	1	0·83
912	22 Piscium	5·9	...	23	45	24·67	87	46	52·1	4	0·85
913	... ...	9·5	2	23	47	56·64	150	43	14·5	2	0·83
914	... ...	8·3	1	23	50	22·87	148	50	45·0	1	0·84
915	28 Piscium ω	4·2	...	23	52	44·34	83	50	43·6	6	0·84
916	29 Piscium	5·1	...	23	55	15·81	93	44	25·7	3	0·85
917	33 Piscium	4·6	...	23	58	47·02	96	25	25·4	2	0·83
918	... ...	9·5	1	23	58	59·96	125	50	35·9	1	0·77

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	*″*	*″*	*″*	
911	... ...	+ 3·1534	− 0·0251	...	− 20·000	− 0·025	...	...
912	22 Piscium	+ 3·0689	+ 0·0022	0·000	− 20·014	− 0·020	+ 0·01	3174
913	... ...	+ 3·1976	− 0·0566	...	− 20·026	− 0·016	...	...
914	... ...	+ 3·1651	− 0·0512	...	− 20·037	− 0·011	...	...
915	28 Piscium ω... ...	+ 3·0676	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191
916	29 Piscium	+ 3·0738	− 0·0004	− 0·000	− 20·051	0·000	+ 0·00	3196
917	33 Piscium	+ 3·0729	− 0·0016	− 0·002	− 20·054	+ 0·006	− 0·10	3208
918	... ...	+ 3·0764	− 0·0198	...	− 20·054	+ 0·007	...	...

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1873

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
1		*Taylor* 11010.			
Nov. 6	7·8	0 0 56·58	6	147 32 36·8	M
7	7·7	0 56·75	4	32 38·1	M
2		21 *Andromedæ α, Alpherat.*			
Nov. 5	...	0 1 49·51	6	61 36 39·4	M
22	...	1 49·61	4	36 39·1	R
3		*Anon.*			
Nov. 10	...	~~0 2 26·34~~	~~6~~	~~127 27 1·6~~	R
17	9·5	2 20·12	6	27 3·4	R
4		88 *Pegasi γ, Algenib.*			
Nov. 11	...	0 6 41·32	4	75 31 24·4	R
18	...	6 41·81	6	31 23·4	R
5		*O. A. N.* 317.			
Oct. 2	8·3	0 18 6·01	...	26 3 54·6	R
6		*Anon.*			
Oct. 6	8·9	0 18 50·56	...	26 51 3·4	M
29	8·7	18 50·48	6	51 1·0	M
7		*Anon.*			
Nov. 12	...	0 19 28·59	5	26 34 38·8	R
8		10 *Ceti.*			
Oct. 3	...	0 20 6·65	...	90 45 12·1	R
9		12 *Ceti.*			
Oct. 31	...	0 23 33·35	6	94 39 33·7	M
Nov. 10	...	23 33·40	6	39 34·7	R
11	...	23 33·45	6	39 35·8	R
18	...	23 33·44	6	39 34·2	R
10		*Anon.*			
Nov. 17	10·4	0 25 50·4	5	76 6 12·9	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
11		*Anon.*			
Oct. 4	9·0	0 27 10·22	...	144 51 21·5	R
21	9·0	27 10·45	6	51 20·1	M
12		13 *Ceti.*			
Oct. 28	5·8	0 28 42·60	6	94 17 34·0	M
13		16 *Ceti β*			
Nov. 5	...	0 37 12·78	6	108 41 3·5	M
8	...	37 12·80	6	41 2·8	M
11	...	37 12·77	6	41 4·1	R
12	...	37 12·81	6	41 3·9	M
17	...	37 12·80	6	41 3·5	R
18	...	37 12·75	4	41 2·6	R
14		2 *Ursæ Minoris.*			
Oct. 29	...	0 51 46·27	3	4 25 31·8	M
		2 *Ursæ Minoris—s.p.*			
Apl 14	...	0 51 47·23	2	4 25 35·9	M
May 20	...	51 ~~48·76~~ 48·20	7	25 34·3	R
24	...	51 ~~46·22~~ 46·98	3	25 36·4	R
15		71 *Piscium ε*			
Nov. 7	...	0 56 21·10	6	82 47 37·7	M
11	...	56 21·20	4	47 39·9	R
12	...	56 21·22	4	47 40·1	R
17	...	56 21·17	6	47 38·6	R
29	...	56 21·23	6	47 39·6	R
Dec. 19	...	56 21·17	6	47 40·2	R
16		*O. A. N.* 1303.			
Oct. 29	7·5	1 9 28·33	6	18 16 7·6	M
30	7·4	9 28·12	5	16 8·0	M
17		*Anon.*			
Nov. 7	8·0	1 10 40·01	3	153 49 15·0	M

47·23
49·20
46·98
47·03

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
18		*R. P. L.* 18.			
Nov. 8	...	1 11 11·03	2	2 5 57·3	M
17	...	11 10·85	2	5 59·9	R
19		*Anon.*			
Dec. 19	9·3	1 12 11·20	6	152 19 42·0	R
20		*Anon.*			
Oct. 21	7·9	1 16 38·46	6	79 49 3·2	M
27	7·9	16 38·45	6	49 3·6	M
28	7·8	16 38·20	6	49 3·8	M
31	7·9	16 38·30	6	49 4·7	M
Nov. 1	7·9	16 38·28	6	49 6·0	M
21		*44 Ceti.*			
Nov. 6	...	1 17 39·39	6	98 40 6·6	M
10	...	17 39·31	6	40 8·6	R
11	...	17 39·28	4	40 8·3	R
22		*45 Ceti* θ^1			
Nov. 12	...	1 17 40·43	6	98 50 23·8	R
17	...	17 40·51	6	50 22·3	R
29	...	17 40·55	6	50 25·6	R
Dec. 6	...	17 40·49	6	50 22·6	R
23		*Anon.*			
Dec. 9	8·2	1 19 13·45	6	151 17 31·4	R
10	7·8	19 13·32	6	17 32·8	R
24		*Lalande* 2625.			
Dec. 8	9·5	1 20 19·00	6	79 17 36·1	R
12	9·0	20 19·16	6	17 31·9	M
19	9·0	20 19·18	5	17 33·5	R
25		*a Eridani, Achernar.*			
Dec. 6	...	1 32 58·97	5	147 52 58·8	R
26		106 *Piscium* ν			
Nov. 29	...	1 34 49·28	6	85 9 22·8	R
27		6 *Arietis* β			
Dec. 6	...	1 47 37·59	6	69 48 48·3	R
12	...	47 37·51	6	48 50·2	M
19	...	47 37·63	6	48 50·5	R
28		*Anon.*			
Nov. 7	9·0	1 56 29·74	5	129 55 55·1	M
29		*Anon.*			
Nov. 6	9·3	1 56 29·81	6	129 24 36·2	M
30		13 *Arietis a*			
Dec. 12	...	2 0 0·98	6	67 8 21·1	M
19	...	0 1·01	6	8 22·3	R
31		*Anon.*			
Dec. 8	9·3	2 1 20·55	4	149 46 27·7	R
32		*Anon.*			
Dec. 10	10·0	2 6 22·14	6	151 21 32·3	R
33		*Bonn* $+2^\circ.351$.			
Dec. 6	10·0	2 7 18·85	5	87 4 20·2	R
34		*R Arietis, Var.* 1.			
Oct. 28	8·0	2 8 58·62	6	65 32 8·0	M
29	8·1	8 58·60	6	32 7·1	M
30	8·0	8 58·80	6	32 7·1	M
31	8·2	8 58·64	6	32 7·1	M
Nov. 1	8·0	8 58·76	6	32 6·4	M
5	8·4	8 58·60	6	32 5·9	M
6	8·1	8 58·53	4	32 7·5	M
7	8·3	8 58·77	6	32 6·3	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
35		67 *Ceti.*			
Nov. 8	...	2 10 38·85	6	97 0 30·3	M
Dec. 11	...	10 39·07	6	0 30·5	R
15	...	10 39·08	6	0 31·0	M
16	...	10 38·89	6	0 31·6	M
36		22 *Arietis θ*			
Oct. 27	...	2 11 3·73	6	70 41 15·5	M
37		73 *Ceti* ξ^2			
Dec. 4	...	2 21 24·49	6	82 6 37·5	R
6	...	21 24·44	5	6 37·5	R
8	...	21 24·53	6	6 37·4	R
10	...	21 24·50	6	6 36·7	R
15	...	21 24·62	6	6 38·0	M
16	...	21 24·54	6	6 37·5	M
38		*R. P. L.* 26.			
Dec. 9	...	2 24 48·99	2	3 30 29·0	R
11	...	24 49·75	3	30 28·8	R
39		86 *Ceti γ*			
Dec. 4	...	2 36 43·25	6	87 18 2·5	R
8	...	36 43·23	6	18 1·1	R
9	...	36 43·20	6	18 1·4	R
10	...	36 43·27	6	18 1·2	R
11	...	36 43·18	5	18 1·3	R
18	...	36 43·18	6	18 2·9	R
40		*Lalande* 5483.			
Jan. 6	8·2	2 51 33·05	...	80 18 22·2	M
7	8·0	51 33·13	...	18 21·3	M
41		*Lalande* 5558.			
Jan. 10	8·4	2 53 57·79	...	80 15 41·2	M
11	8·5	53 57·87	5	15 42·3	M
14	8·3	53 58·19	...	15 41·6	M
42		92 *Ceti a, Menkar.*			
Jan. 15	...	2 55 38·60	...	86 24 35·9	M
16	...	55 38·55	...	24 26·2	M
Dec. 4	...	55 38·49	6	24 36·9	R
8	...	55 38·47	6	24 34·8	R
9	...	55 38·55	6	24 35·1	R
10	...	55 38·45	6	24 36·4	R
12	...	55 38·57	6	24 35·7	M
13	...	55 38·48	4	24 36·2	R
16	...	55 38·45	6	24 35·7	M
43		25 *Persei ρ, Var.* 2.			
Jan. 17	4·4	2 57 2·91	...	51 39 13·4	M
18	4·3	57 2·71	...	39 13·5	M
44		*Anon.*			
Jan. 20	9·0	2 59 11·70	...	130 36 14·1	M
45		26 *Persei β, Var.* 1, *Algol.*			
Jan. 21	...	2 59 54·81	5	49 32 8·2	M
22	...	59 54·88	5	32 7·8	M
24	...	59 54·73	4	32 6·6	M
46		*Taylor* 1047.			
Jan. 28	6·0	3 0 3·85	...	151 17 45·1	M
Oct. 30	6·0	0 3·70	6	17 43·5	M
47		*Taylor* 1052.			
Oct. 31	5·9	3 0 37·57	6	150 13 53·3	M
48		*Taylor* 1057.			
Jan. 18	7·8	3 0 58·46	5	151 20 13·0	M
49		*Anon.*			
Nov. 12	10·2	3 2 30·22	5	130 36 50·7	R
Dec. 6	9·8	2 30·22	6	36 50·4	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
50		57 *Arietis* δ			
Jan. 2	...	3 4 22·15	...	70 45 19·8	M
51		*Taylor* 1081.			
Jan. 8	7·4	3 5 24·53	5	151 38 11·6	M
52		*Anon.*			
Jan. 9	8·9	3 6 29·69	...	128 29 59·5	M
10	8·9	6 29·70	...	29 58·8	M
14	9·0	6 29·66	...	29 58·6	M
53		*Anon.*			
Jan. 17	9·1	3 7 31·09	...	145 38 29·8	M
24	9·6	7 31·03	2	38 30·4	M
54		58 *Arietis* ζ			
Jan. 15	6·0	3 7 36·36	...	69 25 41·5	M
16	5·9	7 36·31	...	25 40·4	M
55		*Taylor* 1112.			
Jan. 18	7·9	3 10 37·50	...	129 28 19·9	M
56		*Anon.*			
Jan. 20	9·4	3 12 43·25	...	130 8 33·1	M
22	9·3	12 43·07	...	8 32·4	M
57		*Anon.*			
Jan. 25	8·0	3 12 43·38	...	130 56 8·1	M
58		*Anon.*			
Jan. 28	8·6	3 12 54·56	...	129 25 41·8	M
59		*Anon.*			
Dec. 8	10·0	3 13 9·27	6	131 44 48·9	R
9	10·2	13 9·21	6	44 47·8	R
10	10·3	13 9·50	4	44 51·6	R
60		*Anon.*			
Nov. 5	8·3	3 13 41·40	6	125 37 52·4	M
61		61 *Arietis* τ^1			
Jan. 2	6·2	3 13 53·79	4	69 18 44·9	M
Nov. 6	5·7	13 53·76	6	18 44·2	M
62		*Anon.*			
Jan. 16	9·3	3 15 3·10	...	150 4 20·9	M
63		*Anon.*			
Jan. 15	8·3	3 15 16·84	...	151 30 15·0	M
64		ζ^2 *Reticuli.*			
Dec. 4	6·5	3 15 27·81	6	152 59 34·3	R
65		*Anon.*			
Nov. 12	9·7	3 15 44·06	6	125 39 26·9	R
66		*Anon.*			
Jan. 7	8·7	3 20 30·62	...	149 17 1·6	M
8	8·8	20 30·70	...	17 1·6	M
67		*Anon.*			
Nov. 17	10·0	3 21 13·72	6	54 45 52·8	R
68		*Anon.*			
Jan. 28	9·5	3 23 35·02	...	130 8 24·0	M
69		*Anon.*			
Jan. 21	8·8	3 23 59·79	...	126 19 45·8	M
70		*R. P. L.* 34—*s.p.*			
May 17	...	3 25 ~~5·33~~ 7·01	3	3 45 33·6	R

7·01

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
71		*Anon.*			
Jan. 17	8·3	3 25 9·86	...	128 59 49·5	M
72		*Anon.*			
Dec. 20	10·3	3 33 57·44	4	128 28 23·4	R
73		*Lacaille* 1193.			
Jan. 6	8·1	3 35 28·63	...	146 33 27·6	M
7	8·0	35 28·59	...	33 27·9	M
74		*Anon.*			
Jan. 8	8·7	3 35 30·55	...	150 11 30·5	M
75		*Taylor* 1256.			
Jan. 10	7·9	3 35 38·09	...	150 11 30·3	M
11	8·0	35 38·19	...	11 32·0	M
16	7·9	35 37·99	...	11 30·0	M
76		*Anon.*			
Jan. 20	9·5	3 36 0·27	...	152 24 39·3	M
Dec. 8	9·9	36 0·55	4	24 37·7	R
10	9·8	36 0·58	4	24 39·1	R
77		*Anon.*			
Dec. 6	10·3	3 36 6·68	4	129 8 47·3	R
78		*Lacaille* 1200.			
Jan. 23	6·8	3 36 37·35	...	146 38 44·8	M
79		*Anon.*			
Jan. 28	8·7	3 37 10·94	5	148 25 45·1	M
Dec. 4	...	37 10·98	5	25 42·5	R
80		17 *Tauri, Electra.*			
Jan. 4	...	3 37 20·29	...	66 17 16·5	M
81		*Anon.*			
Jan. 18	8·0	3 39 52·22	...	66 28 48·6	M
82		25 *Tauri* η, *Alcyone.*			
Jan. 21	...	3 39 56·21	...	66 17 23·4	M
22	...	39 56·07	...	17 22·7	M
Dec. 9	...	39 56·24	6	17 23·8	R
11	...	39 56·18	6	17 23·5	R
23	...	39 56·12	4	17 23·2	R
29	...	39 56·15	...	17 22·3	M
83		30 *Tauri e*			
Jan. 9	6·0	3 41 18·50	5	79 14 58·7	M
84		34 *Eridani* γ^1			
Jan. 4	...	3 52 6·24	...	103 52 16·4	M
21	...	52 6·28	...	52 17·0	M
22	...	52 6·26	...	52 16·8	M
Dec. 18	...	52 6·31	6	52 17·0	R
20	...	52 6·31	6	52 19·0	R
23	...	52 6·34	6	52 18·9	R
29	...	52 6·24	...	52 17·6	M
85		*R. P. L.* 35.			
Jan. 6	...	3 57 25·41	3	4 47 2·7	M
9	...	57 24·97	3	47 1·2	M
14	...	57 26·44	3	47 1·5	M
86		37 *Eridani.*			
Jan. 14	5·7	4 4 11·07	6	97 15 27·5	M
87		38 *Eridani* o^1			
Jan. 2	...	4 5 40·02	...	97 10 13·7	M
18	...	5 40·02	...	10 13·6	M
23	...	5 40·00	...	10 13·3	M
25	...	5 40·11	...	10 12·9	M
Dec. 20	...	5 39·85	6	10 15·6	R
29	...	5 40·04	...	10 13·9	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
88	*U Tauri, Var.* 7.				
Jan. 21	9·6	4 14 25·08	...	70 29 22·0	M
22	9·7	14 25·06	5	29 20·7	M
28	9·8	14 25·18	...	29 20·7	M
Feb. 6	10·2	14 25·17	...	29 17·9	M
89	*74 Tauri* ϵ				
Jan. 18	...	4 21 12·21	...	71 6 12·7	M
24	...	21 12·21	...	6 13·1	M
29	...	21 12·02	...	6 13·0	M
30	...	21 12·22	...	6 13·1	M
Dec. 20	...	21 12·13	6	6 13·2	R
90	*R Tauri, Var.* 2.				
Jan. 2	8·0	4 21 20·32	...	80 7 22·5	M
6	8·3	21 20·27	5	7 23·2	M
7	8·2	21 20·47	...	7 22·4	M
91	*Anon.*				
Dec. 11	10·3	4 22 31·94	5	80 26 49·4	R
92	*Anon.*				
Dec. 13	10·2	4 22 51·65	5	80 20 1·6	R
93	*87 Tauri a, Aldebaran.*				
Jan. 4	...	4 28 37·98	...	73 44 53·7	M
31	...	28 38·06	...	44 54·7	M
Feb. 1	...	28 38·12	...	44 54·0	M
5	...	28 38·00	...	44 54·7	M
Dec. 23	...	28 38·09	5	44 53·4	R
94	*Lacaille* 1551—2*nd.*				
Feb. 6	10·0	4 32 19·77	4	153 5 16·6	M
95	*Anon.*				
Jan. 6	9·0	4 34 9·85	...	130 50 37·0	M
7	9·0	34 10·04	...	50 36·7	M
Dec. 13	9·5	34 10·08	3	50 37·9	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
96	*Anon.*				
Jan. 8	9·5	4 34 30·14	...	130 50 30·4	M
Dec. 11	9·7	34 30·17	5	50 29·9	R
97	*Anon.*				
Jan. 10	9·3	4 34 41·66	...	144 54 45·2	M
11	9·4	34 41·89	...	54 47·3	M
98	*Anon.*				
Dec. 6	10·0	4 34 43·19	4	153 25 43·8	R
99	*95 Tauri.*				
Jan. 17	7·0	4 35 32·72	6	66 9 15·9	M
100	*3 Aurigæ* ι				
Jan. 4	...	4 48 43·58	...	57 2 14·7	M
25	...	48 43·55	...	2 14·9	M
27	...	48 43·70	...	2 15·2	M
29	...	48 43·56	...	2 15·8	M
Feb. 5	...	48 43·51	...	2 15·7	M
101	*Anon.*				
Dec. 10	10·4	4 51 56·05	3	82 7 41·0	R
102	*R Orionis, Var.* 3.				
Jan. 9	9·4	4 52 7·35	...	82 3 55·8	M
10	9·3	52 7·28	...	3 56·8	M
103	*7 Aurigæ* ϵ, *Var.* 1.				
Jan. 7	...	4 52 51·45	...	46 22 3·2	M
11	...	52 51·53	...	22 2·2	M
14	...	52 51·77	...	22 4·0	M
15	...	52 51·58	...	22 3·3	M
104	*11 Orionis.*				
Jan. 16	5·2	4 57 18·77	...	74 46 30·5	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
105		104 *Tauri m*			
Jan. 15	...	4 59 56·66	...	71 31 40·1	M
106		2 *Leporis ϵ*			
Jan. 23	...	5 0 5·08	...	112 32 35·7	M
107		103 *Tauri.*			
Jan. 17	6·0	5 0 22·42	...	65 54 18·8	M
108		*Anon.*			
Jan. 21	9·4	5 4 49·84	...	135 33 56·6	M
25	9·5	4 50·08	...	33 57·3	M
109		*Anon.*			
Jan. 27	9·0	5 6 58·38	...	36 33 58·8	M
110		*R Aurigæ, Var.* 2.			
Jan. 28	8·8	5 7 3·01	...	36 33 34·9	M
29	8·9	7 2·73	...	33 35·6	M
30	8·8	7 2·94	...	33 35·2	M
31	8·8	7 2·87	...	33 36·3	M
Feb. 7	8·7	7 3·12	...	33 34·8	M
8	8·7	7 2·80	4	33 35·0	M
111		19 *Orionis β, Rigel.*			
Jan. 10	...	5 8 26·07	...	98 21 0·9	M
11	...	8 25·97	...	21 2·3	M
16	...	8 26·05	...	21 0·5	M
17	...	8 26·09	...	21 0·6	M
28	...	8 26·02	...	21 1·8	M
112		*Anon.*			
Jan. 15	9·0	5 13 20·94	...	75 4 22·2	M
113		*Anon.*			
Jan. 14	9·5	5 14 55·08	...	75 5 53·7	M
114		112 *Tauri β*			
Jan. 23	...	5 18 15·98	...	61 30 10·1	M
24	...	18 15·77	...	30 9·0	M
Feb. 10	...	18 16·08	...	30 9·4	M
115		*Anon.*			
Jan. 11	9·2	5 18 38·90	...	121 28 26·0	M
116		*Taylor* 1984.			
Jan. 16	7·2	5 18 57·75	...	150 54 18·5	M
117		*Stone* 2839.			
Jan. 17	9·0	5 19 13·49	...	148 13 47·3	M
21	9·0	19 13·40	5	13 46·8	M
118		114 *Tauri o*			
Jan. 22	5·7	5 20 0·61	...	68 10 27·1	M
Feb. 11	...	20 0·33	...	10 26·9	M
119		*Anon.*			
Jan. 25	9·5	5 20 2·72	...	131 3 23·3	M
Feb. 5	9·3	20 2·71	...	3 22·6	M
12	9·3	20 2·80	...	3 23·7	M
120		*R. P. L.* 40.			
Dec. 16	...	5 21 32·09	2	4 52 ~~37·9~~ 30·6	M
		R. P. L. 40—*s.p.*			
Jan. 25	...	5 21 32·39	3	4 52 30·6	M
121		34 *Orionis δ, Var.* 1.			
Jan. 29	...	5 25 31·20	...	90 23 42·5	M
31	...	25 31·18	...	23 42·6	M
122		*Anon.*			
Jan. 18	8·9	5 25 36·69	...	155 50 53·2	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
123		*Anon.*			
Feb. 6	9·0	5 26 25·85	6	121 23 58·7	M
7	9·1	26 26·03	...	23 57·4	M
124		11 *Leporis a*			
Jan. 7	...	5 27 7·81	...	107 54 53·9	M
8	...	27 7·72	...	54 53·5	M
Feb. 15	...	27 7·84	...	54 57·0	M
125		46 *Orionis* ϵ			
Jan. 2	...	5 29 46·18	...	91 17 7·1	M
6	...	29 46·14	...	17 6·9	M
14	...	29 45·95	5	17 9·5	M
16	...	29 46·09	...	17 7·4	M
20	...	29 46·22	...	17 7·4	M
24	...	29 46·17	...	17 6·2	M
Feb. 13	...	29 46·17	...	17 7·0	M
14	...	29 46·11	...	17 6·3	M
20	...	29 46·30	...	17 7·6	M
21	...	29 46·26	...	17 6·4	M
24	...	29 46·21	...	17 6·4	M
126		123 *Tauri* ζ			
Jan. 15	5·0	5 30 3·32	...	68 56 15·8	M
127		*a Columbæ.*			
Jan. 6	...	5 35 3·06	...	124 8 35·1	M
8	...	35 2·99	...	8 36·3	M
9	...	35 2·97	...	8 37·0	M
27	...	35 3·14	...	8 35·9	M
28	...	35 3·10	...	8 37·1	M
30	...	35 3·02	...	8 35·7	M
Feb. 10	...	35 3·04	...	8 34·0	M
11	...	35 3·19	...	8 34·6	M
128		*Anon.*			
Jan. 16	9·2	5 40 0·99	...	120 59 40·9	M
17	9·2	40 1·26	...	59 48·8	M
18	9·2	40 1·00	...	59 42·7	M
21	9·1	40 0·86	...	59 45·0	M
22	9·1	40 1·05	...	59 41·8	M
129		*Anon.*			
Jan. 10	9·0	5 40 8·85	...	135 47 53·7	M
11	9·0	40 8·85	5	47 52·4	M
130		*Anon.*			
Jan. 24	9·0	5 40 51·10	4	120 57 43·8	M
25	9·0	40 50·97	...	57 43·6	M
131		*Anon.*			
Feb. 12	10·2	5 42 17·22	4	136 4 5·3	M
132		*Anon.*			
Jan. 6	9·3	5 44 14·08	5	152 57 51·7	M
133		54 *Orionis* χ^1			
Jan. 2	...	5 46 51·97	...	69 45 0·2	M
7	...	46 51·88	...	45 0·6	M
134		58 *Orionis a, Var.* 1.			
Jan. 20	...	5 48 17·81	...	82 37 7·9	M
28	...	48 17·80	...	37 6·6	M
31	...	48 17·70	...	37 7·7	M
Feb. 24	...	48 17·78	...	37 5·5	M
135		*Anon.*			
Jan. 30	8·7	5 50 9·21	6	135 43 0·4	M
Feb. 6	8·6	50 9·06	...	43 1·4	M
136		*Anon.*			
Feb. 14	9·5	5 51 14·37	4	130 42 53·5	M
20	9·6	51 14·18	5	42 54·0	M
137		*Anon.*			
Jan. 11	8·9	5 53 19·24	...	130 24 51·8	M
25	8·6	53 19·03	...	24 50·9	M
138		*Anon.*			
Jan. 10	7·9	5 53 39·62	...	141 40 4·9	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
139		*Anon.*			
Feb. 5	9·2	5 53 58·62	5	121 32 33·5	M
7	9·2	53 59·01	4	32 31·4	M
140		*Anon.*			
Feb. 10	9·7	5 54 49·24	5	137 45 10·8	M
141		64 *Orionis* χ^3			
Jan. 9	5·5	5 55 56·17	5	70 18 35·9	M
24	5·5	55 56·22	...	18 34·9	M
142		62 *Orionis* χ^4			
Feb. 21	...	5 56 22·60	...	69 51 40·9	M
26	...	56 22·55	...	51 39·7	M
143		1 *Geminorum.*			
Feb. 8	...	5 56 24·00	5	66 43 57·2	M
27	...	56 24·00	...	43 57·5	M
28	...	56 23·82	5	43 57·4	M
Mar. 3	...	56 23·89	6	43 56·8	M
144		67 *Orionis* ν			
Jan. 7	...	6 0 19·18	...	75 13 7·6	M
15	...	·0 19·20	...	13 7·3	M
21	...	0 19·23	...	13 7·2	M
22	...	0 19·31	...	13 7·3	M
27	...	0 19·29	...	13 7·0	M
28	...	0 19·28	...	13 7·0	M
145		7 *Geminorum* η			
Jan. 6	5·8	6 7 12·60	...	67 27 32·6	M
7	5·7	7 12·65	...	27 33·1	M
11	5·8	7 12·66	...	27 33·1	M
14	5·7	7 13·01	...	27 33·5	M
15	5·7	7 12·81	...	27 32·7	M
146		*Anon.*			
Feb. 11	9·0	6 7 55·32	...	137 6 29·4	M
147		*Anon.*			
Feb. 12	9·5	6 8 37·10	...	155 3 38·9	M
148		*Anon.*			
Jan. 16	9·5	6 10 10·04	6	153 14 32·8	M
Feb. 26	9·6	10 10·01	...	14 31·9	M
27	9·7	10 9·73	...	14 32·2	M
149		*Anon.*			
Mar. 3	9·9	6 11 48·28	...	152 1 56·1	M
150		*Anon.*			
Jan. 24	8·7	6 12 3·73	5	121 31 40·6	M
151		*Anon.*			
Jan. 28	9·3	6 12 16·80	5	136 50 59·7	M
Feb. 28	9·3	12 16·76	...	50 59·3	M
152		*Lalande* 12053.			
Jan. 25	8·6	6 12 56·25	...	68 51 27·5	M
153		*Lalande* 12094.			
Jan. 30	8·6	6 14 7·32	...	68 42 11·7	M
154		13 *Geminorum* μ			
Jan. 2	...	6 15 16·54	...	67 25 26·5	M
6	...	15 16·69	...	25 26·2	M
7	...	15 16·60	...	25 26·6	M
10	...	15 16·56	...	25 27·5	M
15	...	15 16·62	...	25 28·8	M
Feb. 13	...	15 16·65	...	25 26·8	M
17	...	15 16·58	...	25 26·3	M
19	...	15 16·48	...	25 25·7	M
21	...	15 16·67	...	25 26·9	M
Mar. 4	...	15 16·54	...	25 25·7	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
155		*Lalande* 12386.			
Jan. 9	7·5	6 21 57·03	...	78 54 6·5	M
11	7·4	21 57·07	...	54 7·4	M
14	7·2	21 57·30	...	54 6·9	M
17	7·3	21 57·04	...	54 7·0	M
18	7·2	21 57·20	...	54 5·9	M
156		*Lalande* 12419.			
Jan. 31	8·4	6 22 39·86	...	79 15 16·7	M
Feb. 5	8·2	22 39·68	4	15 17·3	M
7	7·9	22 39·86	...	15 15·7	M
10	8·0	22 39·82	...	15 15·9	M
11	7·9	22 39·63	...	15 16·2	M
157		24 *Geminorum* γ			
Jan. 7	...	6 30 22·53	...	73 29 42·4	M
8	...	30 22·62	...	29 42·3	M
9	...	30 22·47	...	29 42·7	M
10	...	30 22·56	...	29 41·7	M
15	...	30 22·46	...	29 41·9	M
16	...	30 22·46	...	29 42·0	M
20	...	30 22·54	...	29 42·6	M
30	...	30 22·44	...	29 41·9	M
Feb. 12	...	30 22·45	...	29 42·0	M
13	...	30 22·49	...	29 42·3	M
14	...	30 22·40	...	29 41·8	M
15	...	30 22·44	...	29 41·8	M
17	...	30 22·42	...	29 41·2	M
19	...	30 22·55	...	29 41·1	M
22	...	30 22·37	...	29 42·4	M
24	...	30 22·46	...	29 41·5	M
Mar. 1	...	30 22·53	...	29 41·8	M
3	...	30 22·34	...	29 41·8	M
4	...	30 22·55	...	29 40·9	M
5	...	30 22·43	...	29 41·3	M
6	...	30 22·50	...	29 42·6	M
7	...	30 22·43	...	29 40·9	M
10	...	30 22·58	...	29 42·3	M
158		31 *Geminorum* ξ			
Jan. 10	...	6 38 9·64	...	76 58 11·6	M
159		9 *Canis Majoris a, Sirius.*			
Dec. 18	...	6 39 32·99	6	106 32 39·7	R
160		51 *Cephei* (*Hev.*)			
Jan. 29	...	6 40 15·24	3	2 45 49·2	M
Feb. 15	...	40 14·19	2	45 47·7	M
20	...	40 14·16	3	45 46·9	M
26	...	40 14·90	3	45 46·6	M
Mar. 6	...	40 15·40	2	45 46·6	M
10	...	40 15·47	2	45 46·1	M
		51 *Cephei* (*Hev.*)—*s.p.*			
Aug. 14	...	6 40 ~~18·34~~ 15·07	3	2 45 48·8	R
161		21 *Canis Majoris* ϵ			
Jan. 9	...	6 53 38·23	...	118 48 3·4	M
10	...	53 38·08	...	48 3·3	M
11	...	53 38·14	...	48 3·6	M
17	...	53 38·15	...	48 2·1	M
18	...	53 37·98	...	47 59·4	M
20	...	53 37·92	...	48 3·0	M
22	...	53 38·16	...	48 2·5	M
25	...	53 38·04	...	48 2·6	M
Feb. 1	...	53 38·21	...	48 2·5	M
12	...	53 38·27	...	48 2·1	M
14	...	53 38·28	...	48 3·0	M
17	...	53 38·10	...	48 3·3	M
19	...	53 38·19	...	48 2·1	M
22	...	53 38·29	...	48 3·1	M
28	...	53 38·06	...	48 2·8	M
Mar. 1	...	53 38·07	...	48 3·2	M
7	...	53 38·05	...	48 3·1	M
18	...	53 38·13	5	48 3·5	R
162		43 *Geminorum* ζ^2, *Var.* 1.			
Jan. 27	4·7	6 56 34·65	...	69 14 46·0	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
163 23 *Canis Majoris* γ					
Jan 11	...	6 58 0·85	...	105 26 51·7	M
14	...	58 0·81	...	26 51·2	M
17	...	58 0·78	...	26 50·9	M
18	...	58 0·74	...	26 50·7	M
Feb. 7	...	58 0·81	...	26 51·7	M
8	...	58 0·76	...	26 51·9	M
17	...	58 0·80	...	26 52·1	M
22	...	58 0·72	...	26 50·7	M
24	...	58 0·69	...	26 50·9	M
28	...	58 0·78	...	26 50·8	M
Mar. 8	...	58 0·87	...	26 50·4	M
4	...	58 0·81	...	26 50·5	M
164 *Anon.*					
Jan. 22	9·3	7 1 47·75	...	129 39 58·3	M
165 *Anon.*					
Feb. 13	9·0	7 3 7·35	...	141 24 54·4	M
15	9·0	3 7·57	...	24 54·1	M
166 *Anon.*					
Feb. 24	9·2	7 8 8·16	...	148 46 53·8	M
167 *Anon.*					
Jan. 7	8·9	7 8 15·31	6	152 5 53·4	M
168 *Anon.*					
Feb. 26	9·7	7 10 4·15	6	130 19 31·1	M
169 *Anon.*					
Jan. 28	9·5	7 10 34·21	...	131 53 7·1	M
30	9·4	10 34·07	...	53 6·9	M
170 55 *Geminorum* δ					
Jan. 14	...	7 12 32·35	...	67 47 11·7	M
25	...	12 32·09	...	47 11·0	M
27	...	12 31·97	...	47 12·3	M
29	...	12 32·22	...	47 11·8	M
31	...	12 32·31	...	47 10·3	M
Feb. 1	...	12 32·06	...	47 10·7	M
171 60 *Geminorum* ι					
Feb. 10	...	7 17 50·20	...	61 57 7·6	M
11	...	17 50·08	...	57 7·6	M
20	...	17 50·18	...	57 7·7	M
21	...	17 50·24	...	57 8·7	M
172 *Lalande* 14397.					
Feb. 22	7·5	7 19 17·50	...	41 49 23·8	M
173 6 *Canis Minoris.*					
Jan. 8	...	7 22 43·65	...	77 43 58·6	M
174 *Anon.*					
Jan. 16	9·0	7 24 15·10	...	152 48 17·8	M
Feb. 28	9·6	24 15·06	...	48 18·2	M
175					
Jan. 27	9·4	7 25 2·37	...	130 10 37·6	M
176 *Anon.*					
Jan. 15	8·8	7 26 18·40	...	142 7 1·2	M
177 66 *Geminorum* a^2, *Castor.*					
Mar. 4	...	7 26 29·67	...	57 50 8·2	M
5	...	26 29·80	...	50 8·3	M
6	...	26 29·78	...	50 7·8	M
7	...	26 29·79	...	50 9·1	M
10	...	26 29·84	...	50 6·2	M
Dec. 18	...	26 29·70	4	50 8·6	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
178		*Anon.*			
Jan. 17	9·5	7 26 55·83	...	129 46 8·2	M
30	9·5	26 55·68	...	46 10·4	M
179		*Anon.*			
Feb. 13	9·3	7 27 18·95	5	153 11 52·3	M
24	9·3	27 19·22	...	11 50·8	M
180		74 *Geminorum f*			
Jan. 23	5·9	7 32 8·40	...	72 2 18·6	M
181		10 *Canis Minoris a, Procyon.*			
Jan. 28	...	7 32 39·19	...	84 27 5·3	M
Feb. 6	...	32 39·10	...	27 7·2	M
7	...	32 39·08	...	27 5·2	M
8	...	32 39·11	...	27 5·3	M
11	...	32 39·20	...	27 2·9	M
12	...	32 39·11	...	27 5·5	M
20	...	32 38·96	...	27 4·9	M
21	...	32 39·07	...	27 2·9	M
182		*Anon.*			
Feb. 26	10·0	7 33 11·63	5	153 12 46·3	M
27	9·5	33 11·69	...	12 48·6	M
183		*Anon.*			
Mar. 1	10·0	7 35 26·17	6	153 0 47·6	M
184		*Anon.*			
Mar. 4	8·2	7 35 41·56	...	144 20 56·2	M
185		76 *Geminorum c*			
Mar. 12	6·0	7 36 21·98	...	63 54 56·5	M
18	6·0	36 22·24	...	54 56·3	M
186		*Taylor* 3195.			
Mar. 5	8·0	7 36 41·02	...	150 20 18·9	M
6	8·0	36 40·94	...	20 19·2	M
187		77 *Geminorum κ*			
Feb. 28	...	7 36 46·69	6	65 17 59·4	M
188		*Anon.*			
Mar. 7	7·6	7 36 49·36	...	128 56 26·5	M
189		*Anon.*			
Mar. 10	7·7	7 37 5·94	...	130 52 6·2	M
190		78 *Geminorum β, Pollux.*			
Feb. 5	...	7 37 32·45	...	61 40 10·1	M
7	...	37 32·56	...	40 10·5	M
191		*Anon.*			
Mar. 21	8·6	7 37 51·61	...	130 59 19·2	M
192		*Anon.*			
Feb. 14	7·9	7 38 5·40	...	128 54 7·7	M
193		*Anon.*			
Jan. 18	9·0	7 41 52·21	...	148 9 37·1	M
194		*Anon.*			
Mar. 19	8·9	7 42 10·21	6	153 5 39·1	M
195		*Lacaille* 3034.			
Feb. 10	8·6	7 44 10·58	...	153 52 58·8	M
196		*Anon.*			
Jan. 30	9·0	7 44 28·31	5	130 57 20·8	M
Mar. 5	9·0	44 28·10	...	57 19·6	M
197		83 *Geminorum φ*			
Jan. 23	...	7 45 43·29	...	62 54 28·8	M
25	...	45 43·36	...	54 27·2	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
198		*Anon.*			
Feb. 6	8·2	7 47 12·60	...	153 22 9·6	M
24	9·0	47 12·88	...	22 9·5	M
199		*Anon.*			
Mar. 4	9·3	7 49 1·40	...	129 56 11·9	M
200		*Anon.*			
Feb. 20	9·0	7 49 17·78	...	130 27 27·1	M
201		*Anon.*			
Mar. 6	7·0	7 49 36·36	...	152 36 17·0	M
202		1 *Cancri.*			
Feb. 19	6·0	7 49 46·76	...	73 52 21·2	M
203		*Taylor* 3323.			
Mar. 10	7·5	7 49 57·50	...	149 17 8·0	M
12	7·7	49 57·75	...	17 6·6	M
204		*Anon.*			
Mar. 14	7·9	7 50 5·26	...	149 9 52·0	M
17	7·9	50 5·53	...	9 51·3	M
205		*Anon.*			
Mar. 18	8·1	7 50 23·92	5	129 39 51·3	M
21	8·7	50 23·88	...	39 50·8	M
206		*Gould* 10480.			
Feb. 27	8·0	7 52 36·49	...	151 32 4·4	M
28	8·0	52 36·37	...	32 5·6	M
207		5 *Cancri.*			
Jan. 29	6·4	7 54 15·96	...	73 11 49·4	M
Feb. 21	6·0	54 15·86	...	11 49·5	M
208		6 *Cancri.*			
Feb. 7	...	7 55 43·00	...	61 51 7·2	M
8	...	55 42·94	...	51 7·6	M
209		*Anon.*			
Mar. 1	9·6	7 56 50·59	6	129 22 49·1	M
210		*Anon.*			
Mar. 7	9·4	7 57 43·58	...	156 25 37·5	M
20	9·5	57 43·60	...	25 36·7	M
211		8 *Cancri.*			
Feb. 13	6·0	7 57 59·82	...	76 31 19·7	M
Mar. 5	6·0	57 59·95	...	31 19·1	M
17	6·0	57 59·83	6	31 20·0	M
28	6·0	57 59·78	...	31 19·8	M
212		*Anon.*			
Mar. 14	9·5	8 1 15·52	6	69 20 55·3	M
213		15 *Argûs* ρ			
Jan. 30	...	8 2 8·17	...	113 56 23·2	M
Feb. 5	...	2 8·20	...	56 23·4	M
6	...	2 8·17	...	56 23·7	M
8	...	2 8·22	...	56 23·8	M
10	...	2 8·10	...	56 23·7	M
214		*Anon.*			
Feb. 26	9·7	8 2 25·80	...	113 48 20·1	M
Mar. 12	9·5	2 25·59	6	48 18·3	M
215		14 *Cancri* ψ^2			
Feb. 12	5·5	8 2 48·08	...	64 6 34·2	M
216		*Anon.*			
Feb. 28	9·7	8 4 38·62	...	154 42 6·7	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
217		*Anon.*			
Feb. 27	10·0	8 10 15·56	...	150 48 18·6	M
218		*W. B. E.* VIII. 178.			
Mar. 19	9·9	8 10 25·74	...	74 17 50·3	M
219		*Anon.*			
Mar. 21	9·7	8 10 29·01	4	150 34 19·1	M
220		*Anon.*			
Mar. 5	9·4	8 10 35·16	...	151 27 57·4	M
10	9·5	10 35·42	6	27 57·2	M
221		*Anon.*			
Mar. 17	8·3	8 11 59·14	...	152 2 56·0	M
28	8·5	11 58·83	6	2 56·6	M
222		19 *Cancri* λ			
Jan. 23	5·7	8 12 58·87	6	65 34 47·5	M
28	5·9	12 58·83	...	34 47·8	M
223		*Anon.*			
Mar. 6	8·4	8 13 1·11	...	130 29 59·7	M
224		*Anon.*			
Feb. 26	10·0	8 14 37·52	5	154 6 45·4	M
225		33 *Cancri* η			
Feb. 10	...	8 25 21·65	...	69 7 45·0	M
12	...	25 21·64	...	7 46·0	M
15	...	25 21·59	...	7 44·4	M
19	...	25 21·70	...	7 44·5	M
Mar. 14	...	25 21·61	...	7 44·9	M
17	...	25 21·80	...	7 45·4	M
24	...	25 21·67	...	7 46·1	M
226		*Anon.*			
Feb. 14	8·0	8 26 20·87	...	144 59 33·6	M
27	8·0	26 20·80	...	59 33·7	M
227		*Anon.*			
Feb. 20	9·2	8 26 45·14	...	130 32 17·9	M
228		*Anon.*			
Mar. 5	9·3	8 29 9·34	...	75 20 56·1	M
229		*Anon.*			
Mar. 6	9·7	8 29 18·52	6	70 42 29·5	M
10	9·5	29 18·37	...	42 29·3	M
230		*W. B. N.* VIII. 684.			
Mar. 19	8·5	8 29 31·90	...	70 40 44·1	M
231		11 *Hydræ* ε			
Feb. 11	...	8 40 3·04	...	88 7 0·8	M
13	...	40 2·89	...	7 0·3	M
14	...	40 2·83	...	7 1·1	M
15	...	40 3·01	...	6 59·8	M
20	...	40 2·90	...	7 0·2	M
21	...	40 2·93	...	7 0·8	M
22	...	40 2·91	...	7 0·2	M
Mar. 12	...	40 2·85	...	7 0·5	M
14	...	40 2·77	6	7 0·2	M
17	...	40 3·19	...	7 0·2	M
20	...	40 2·88	...	7 1·6	M
21	...	40 3·01	...	7 3·0	M
24	...	40 3·13	...	7 0·7	M
27	...	40 3·03	...	7 0·4	M
28	...	40 2·95	...	6 59·4	M
232		*R. P. L.* 60.			
Mar. 3	...	8 48 26·63	3	5 18 54·7	M
18	...	48. 27·07	3	18 54·4	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
		R. P. L.* 60—*s.p.			
Sep. 19	...	8 48 26·31	3	5 18 52·0	M
Oct. 21	...	48 27·64	3	18 54·3	M
233		***Anon.***			
Mar. 5	10·0	8 48 27·70	...	133 27 9·2	M
234		***T Cancri, Var.*** 3.			
Mar. 20	9·0	8 49 24·74	...	69 40 0·7	M
235		***Anon.***			
Mar. 25	10·2	8 51 12·75	4	98 46 18·8	R
29	10·4	51 12·98	5	46 18·2	R
236		***Anon.***			
Mar. 12	9·7	8 51 35·61	...	147 16 38·0	M
19	9·7	51 35·77	6	16 35·5	M
237		***Anon.***			
Feb. 20	9·9	8 52 13·29	...	137 26 45·6	M
27	9·7	52 13·20	...	26 43·7	M
28	9·6	52 13·12	...	26 44·2	M
238		***Anon.***			
Feb. 26	8·0	8 55 14·22	...	142 51 1·6	M
239		***Taylor*** 3941.			
Feb. 17	8·4	8 55 15·74	...	144 8 29·2	M
240		**69 *Cancri ν***			
Feb. 22	...	8 55 18·45	6	65 2 55·6	M
Mar. 1	...	55 18·55	...	2 56·8	M
6	...	55 18·72	...	2 56·0	M
241		***Anon.***			
Mar. 14	9·9	8 56 34·18	...	146 53 10·6	M
242		***Anon.***			
Mar. 10	9·5	8 57 3·97	...	129 20 18·6	M
243		**77 *Cancri ξ***			
Feb. 13	...	9 2 3·25	...	67 26 33·4	M
244		***Anon.***			
Mar. 25	10·4	9 9 54·91	4	73 54 59·5	M
29	10·4	9 54·99	4	54 57·2	R
245		***Anon.***			
Mar. 12	9·6	9 10 27·52	...	150 27 35·5	M
246		***Anon.***			
Apl. 4	9·8	9 11 24·77	...	70 42 59·8	R
247		**83 *Cancri.***			
Feb. 20	...	9 11 53·52	...	71 45 28·2	M
26	...	11 53·43	...	45 28·5	M
27	...	11 53·48	...	45 28·6	M
Mar. 21	...	11 53·56	...	45 29·7	M
248		***ι Argûs.***			
Mar. 27	...	9 13 41·25	...	148 44 37·6	M
28	...	13 41·17	...	44 37·4	M
249		***Anon.***			
Mar. 14	8·9	9 15 32·31	...	143 50 59·1	M
250		***Anon.***			
Feb. 15	8·5	9 15 58·16	4	124 49 8·3	M
Mar. 21	8·1	15 58·02	...	49 7·8	M
251		***Anon.***			
Mar. 29	9·5	9 16 50·68	5	70 28 58·7	R
31	9·7	16 50·84	...	28 59·4	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
252		*Anon.*			
Apl. 12	9·4	9 16 53·70	...	124 49 50·2	M
253		*Anon.*			
Feb. 24	8·0	9 19 58·64	...	75 8 49·0	M
28	8·0	19 58·79	...	8 49·4	M
Mar. 25	8·2	19 58·84	...	8 48·7	M
254		*Lalande* 18595.			
Mar. 3	8·7	9 20 46·45	...	66 9 53·1	M
6	8·7	20 46·34	...	9 51·6	M
17	8·7	20 46·25	...	9 52·2	M
27	8·8	20 46·43	6	9 53·3	M
28	8·9	20 46·28	...	9 52·4	M
255		30 *Hydræ a, Var.* 2.			
Feb. 26	...	9 21 20·78	...	98 6 33·4	M
27	...	21 20·71	...	6 33·5	M
256		2 *Leonis* ω			
Feb. 19	6·0	9 21 39·42	...	80 23 28·8	M
Mar. 24	6·0	21 39·60	5	23 29·4	M
Apl. 5	...	21 39·38	...	23 29·5	M
257		25 *Ursæ Majoris* θ			
Mar. 29	...	9 24 21·17	...	37 44 44·0	R
258		4 *Leonis* λ			
Feb. 14	...	9 24 28·25	...	66 28 24·4	M
Mar. 12	...	24 28·24	...	28 24·0	M
18	...	24 28·45	...	28 24·4	M
259		17 *Leonis* ε			
Feb. 26	...	9 38 38·29	...	65 38 31·5	M
27	...	38 38·37	...	38 32·1	M
28	...	38 38·43	...	38 32·6	M
Mar. 5	...	38 38·37	...	38 33·5	M
Mar. 6	...	9 38 38·32	...	65 38 32·2	M
10	...	38 38·32	5	38 33·2	M
17	...	38 38·23	...	38 33·5	M
18	...	38 38·24	5	38 32·8	M
19	...	38 38·14	...	38 32·6	M
20	...	38 38·20	...	38 32·9	M
21	...	38 38·22	...	38 34·2	M
24	...	38 38·32	...	38 33·3	M
25	...	38 38·38	...	38 33·2	M
27	...	38 38·41	...	38 32·8	M
28	...	38 38·29	...	38 32·6	M
260		*Anon.*			
Mar. 1	8·0	9 39 55·94	...	148 36 9·6	M
261		*Anon.*			
Mar. 3	8·0	9 42 11·85	...	130 51 51·5	M
262		*Bonn* +18°.2276.			
Mar. 24	9·0	9 43 42·04	...	71 40 26·2	M
27	9·0	43 42·07	...	40 25·5	M
28	8·9	43 42·06	...	40 24·8	M
31	9·3	43 41·94	...	40 25·7	R
Apl. 8	9·3	43 42·08	...	40 25·7	R
263		*Anon.*			
Apl. 12	9·5	9 44 26·41	4	148 32 27·7	M
264		*Bonn* +18°.2278.			
Mar. 4	8·6	9 44 39·23	...	71 55 28·8	M
5	8·7	44 39·42	...	55 29·2	M
6	8·7	44 39·43	...	55 28·9	M
12	8·5	44 39·23	...	55 27·8	M
18	8·9	44 39·25	6	55 29·4	M
265		*Bonn* +18°.2279.			
Mar. 19	9·0	9 44 48·24	...	72 3 11·9	M
20	9·1	44 41·18	...	3 11·8	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
266		*Anon.*			
Feb. 24	9·2	9 45 19·36	...	129 49 49·6	M
267		*R. P. L.* 70—*s.p.*			
Aug. 11	...	9 47 59·95	2	5 28 20·3	R
268		*W. B. N.* IX. 1020.			
Mar. 21	9·0	9 48 57·14	...	71 51 25·8	M
Apl. 4	9·0	48 57·16	...	51 22·7	R
8	...	48 57·29	4	51 26·1	R
269		*W. B. N.* IX. 1047.			
Mar. 14	9·0	9 50 2·33	...	72 20 27·4	M
Apl. 14	9·2	50 2·35	...	20 27·9	M
21	9·5	50 2·33	5	20 27·1	R
270		*Anon.*			
Mar. 29	...	9 52 45·35	4	72 4 14·5	R
31	10·3	52 46·01	4	4 14·6	R
Apl. 17	10·3	52 45·45	4	4 13·0	R
18	10·4	52 45·62	3	4 15·2	R
271		29 *Leonis* π			
Feb. 26	...	9 53 30·07	...	81 20 51·7	M
27	...	53 29·99	...	20 52·2	M
28	...	53 30·08	...	20 51·6	M
Mar. 3	...	53 30·09	...	20 51·8	M
272		*Anon.*			
Mar. 5	9·5	9 55 9·77	6	125 20 0·5	M
25	9·7	55 9·99	4	20 0·3	M
273		*W. B. N.* IX. 1160.			
Mar. 28	8·9	9 55 35·98	...	73 20 15·2	M
274		*Taylor* 4444.			
Feb. 22	6·4	9 55 44·02	...	67 26 22·1	M
Mar. 10	6·5	55 43·84	4	26 24·8	M
27	6·6	55 43·86	...	26 22·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
275		*Anon.*			
Mar. 24	8·7	9 56 45·43	...	144 6 28·8	M
276		*W. B. N.* IX. 1189.			
Apl. 19	9·8	9 56 57·06	...	73 10 14·1	R
277		*W. B. N.* IX. 1203.			
Apl. 16	9·7	9 58 22·20	5	72 55 4·8	R
278		30 *Leonis* η			
Apl. 22	...	10 0 24·30	...	72 37 8·8	R
279		*W. B. N.* IX. 1282.			
Mar. 6	9·0	10 0 47·81	...	73 6 15·4	M
7	8·9	0 47·73	...	6 15·6	M
17	8·9	0 47·78	...	6 15·1	M
Apl. 17	9·8	0 47·81	...	6 15·1	R
280		32 *Leonis a, Regulus.*			
Feb. 24	...	10 1 36·43	...	77 24 47·8	M
Mar. 1	...	1 36·44	...	24 49·5	M
12	...	1 36·59	6	24 48·4	M
Apl. 7	...	1 36·38	...	24 48·7	R
281		*Anon.*			
Mar. 31	9·8	10 2 48·27	5	123 30 4·7	R
282		33 *Leonis.*			
Mar. 29	8·0	10 3 50·65	...	73 40 14·9	R
283		*Anon.*			
Feb. 28	8·7	10 4 49·64	...	122 56 38·5	M
284		*R. P. L.* 72.			
Mar. 14	...	10 10 50·25	3	5 6 19·0	M
27	...	10 49·95	3	6 18·4	M
Apl. 4	...	10 50·22	3	6 17·8	R
14	...	10 50·57	2	6 16·9	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
285		41 *Leonis* γ^1			
Mar. 1	...	10 12 57·99	...	69 31 2·8	M
3	...	12 58·06	...	31 1·9	M
5	...	12 57·97	...	31 2·6	M
6	...	12 57·99	...	31 1·8	M
7	...	12 58·04	...	31 1·9	M
10	...	12 57·86	...	31 3·0	M
17	...	12 57·88	...	31 3·4	M
286		41 *Leonis* γ^2			
Mar. 20	...	10 12 58·21	...	69 31 3·9	M
28	...	12 58·21	...	31 4·0	M
29	...	12 58·51	...	31 2·9	R
Apl. 5	...	12 58·32	4	31 4·3	R
12	...	12 58·32	...	31 4·1	M
16	...	12 58·44	6	31 1·2	R
17	...	12 58·38	...	31 2·9	R
21	...	12 58·44	...	31 2·9	R
22	...	12 58·49	...	31 3·8	R
23	...	12 58·38	...	31 3·3	R
287		47 *Leonis* ρ			
Mar. 12	...	10 26 7·31	...	80 2 25·3	M
19	...	26 7·39	...	2 25·7	M
20	...	26 7·52	...	2 27·7	M
24	...	26 7·28	...	2 26·5	M
25	...	26 7·39	...	2 26·0	M
28	...	26 7·45	...	2 25·7	M
29	...	26 7·33	...	2 26·1	R
31	...	26 7·38	...	2 24·5	R
Apl. 4	...	26 7·45	...	2 24·5	R
5	...	26 7·36	...	2 27·9	R
7	...	26 7·39	...	2 26·8	R
8	...	26 7·34	...	2 26·6	R
12	...	26 7·38	...	2 26·3	M
14	...	26 7·33	...	2 25·5	M
23	...	26 7·83	...	2 27·2	R
288		*Anon.*			
Mar. 3	9·0	10 26 48·62	...	152 28 36·6	M
289		*Anon.*			
Mar. 1	10·0	10 28 22·60	...	131 44 22·2	M
290		50 *Leonis.*			
Mar. 5	6·4	10 32 5·83	...	73 12 44·1	M
6	6·5	32 5·68	...	12 43·2	M
291		*Stone* 5932.			
Mar. 7	9·0	10 39 23·69	...	148 37 1·6	M
292		*Anon.*			
Mar. 12	9·1	10 39 47·25	...	130 4 58·6	M
10	9·3	39 47·34	...	4 57·4	M
293		*Taylor* 4872.			
Mar. 20	8·0	10 41 25·34	...	151 16 23·1	M
294		*Anon.*			
Apl. 16	10·0	10 41 46·85	...	146 26 1·0	R
17	9·8	41 46·68	...	26 2·9	R
18	9·4	41 46·89	...	26 3·5	R
295		*Anon.*			
Apl. 22	9·6	10 42 16·47	...	149 25 42·7	R
296		53 *Leonis l*			
Mar. 31	...	10 42 34·86	...	78 46 57·8	R
Apl. 4	...	42 34·80	...	46 58·3	R
5	...	42 34·84	...	47 0·8	R
8	...	42 34·79	...	47 1·2	R
297		*Cordoba* 14787.			
Apl. 24	10·0	10 42 46·00	...	148 54 9·1	R
25	10·2	42 45·95	...	54 12·9	R
26	10·2	42 45·98	...	54 13·5	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
298		*Anon.*			
Apl. 30	9·8	10 42 51·32	...	75 7 39·0	R
May 3	9·7	42 51·35	6	7 39·3	R
299		*Anon.*			
Apl. 14	9·0	10 42 59·43	...	141 7 17·2	M
300		*Anon.*			
Mar. 10	8·7	10 44 16·47	...	137 5 38·3	M
27	8·2	44 16·42	...	5 39·7	M
301		*Anon.*			
Mar. 17	9·3	10 47 20·96	...	141 47 42·6	M
25	9·9	47 20·79	...	47 41·8	M
302		*Anon.*			
Mar. 14	8·6	10 48 14·15	...	150 8 27·2	M
303		*Anon.*			
Mar. 21	9·3	10 48 18·08	...	147 44 55·2	M
Apl. 12	9·2	48 18·14	6	44 56·2	M
304		*R. P. L.* 79.			
Apl. 26	...	10 57 49·25	3	1 40 15·9	R
		R. P. L. 79—*s.p.*			
Oct. 4	...	10 57 49·19	3	1 40 17·5	R
Nov. 5	...	57 50·14	2	40 17·2	M
305		63 *Leonis* χ			
Mar. 12	...	10 58 27·88	...	81 58 39·3	M
18	...	58 27·80	...	58 40·0	M
29	...	58 27·97	...	58 39·8	R
Apl. 5	...	58 27·86	...	58 40·0	R
7	...	58 27·90	...	58 39·6	R
8	...	58 27·92	...	58 39·9	R
Apl. 14	...	10 58 28·02	...	81 58 40·3	M
18	...	58 27·90	...	58 41·4	R
19	...	58 27·77	5	58 42·3	R
21	...	58 27·99	...	58 39·9	R
25	...	58 27·86	...	58 39·7	R
May 2	...	58 27·80	...	58 39·1	R
306		65 *Leonis* p^4			
Mar. 10	5·7	11 0 25·61	...	87 21 22·6	M
17	5·0	0 25·58	6	21 24·2	M
307		*Anon.*			
Mar. 25	9·3	11 0 59·29	...	147 16 39·4	M
Apl. 16	9·8	0 59·29	5	16 38·9	R
308		*Anon.*			
Mar. 19	8·3	11 1 25·86	...	135 36 31·4	M
27	8·5	1 25·59	...	36 32·4	M
309		*Anon.*			
Apl. 12	8·2	11 2 11·51	...	149 16 38·7	M
310		*Anon.*			
Mar. 14	8·2	11 2 20·80	...	148 59 7·4	M
311		*S Leonis, Var.* 2.			
Apl. 24	10·5	11 4 16·80	4	83 51 2·9	R
29	10·5	4 17·04	4	51 6·0	R
30	10·5	4 16·98	5	51 2·5	R
May 8	9·7	4 16·74	...	51 4·7	R
312		*Anon.*			
Mar. 20	8·1	11 4 42·82	...	150 17 27·8	M
Apl. 23	9·3	4 42·67	...	17 29·5	R
28	9·0	4 42·60	6	17 28·3	R
313		*Taylor* 5088.			
Apl. 14	7·7	11 5 18·17	...	149 41 47·2	M

20·8
21·3

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
314		*Anon.*			
May 3	10·3	11 6 9·32	4	83 53 20·6	R
315		*Taylor* 5108.			
Mar. 28	5·6	11 7 9·70	...	149 37 41·4	M
316		*Anon.*			
Apl. 17	9·0	11 7 19·68	...	65 27 57·6	R
26	9·0	7 19·64	5	28 0·0	R
May 7	9·0	7 19·71	...	27 57·7	R
317		68 *Leonis* δ			
Apl. 4	...	11 7 21·00	...	68 46 52·1	R
21	...	7 21·04	5	46 51·5	R
May 5	...	7 21·06	...	46 51·6	R
318		*Taylor* 6007.			
Mar. 31	6·8	11 7 25·80	4	81 14 38·2	R
Apl. 16	6·2	7 26·01	3	14 39·2	R
25	6·7	7 25·77	...	14 41·3	R
319		*Anon.*			
Apl. 22	10·0	11 9 52·49	...	145 58 12·4	R
May 6	9·7	9 52·35	...	58 11·8	R
320		*Anon.*			
Mar. 29	9·3	11 10 7·87	5	147 17 56·5	R
Apl. 18	9·0	10 7·99	...	17 56·0	R
321		*Anon.*			
Mar. 12	8·5	11 10 48·87	...	148 58 46·3	M
322		12 *Crateris* δ			
Mar. 27	...	11 12 59·42	6	104 5 30·7	M
31	...	12 59·56	...	5 27·6	R
Apl. 28	...	12 59·49	...	5 31·8	R
May 2	...	12 59·51	...	5 30·6	R
5	...	12 59·58	...	5 31·5	R
323		77 *Leonis* σ			
Mar. 10	4·5	11 14 35·33	...	88 16 30·0	M
17	4·3	14 35·27	...	16 30·7	M
18	4·5	14 35·41	...	16 30·8	M
324		78 *Leonis* ι			
Mar. 7	...	11 17 18·27	...	78 46 17·4	M
325		*O. A. N.* 11812.			
Mar. 24	8·6	11 23 41·61	...	23 0 43·0	M
326		*Anon.*			
Apl. 16	10·0	11 23 54·32	6	23 24 7·5	R
327		*Anon.*			
Mar. 28	9·0	11 25 46·99	...	128 29 45·3	M
29	9·5	25 46·94	...	29 45·3	R
328		*Anon.*			
Apl. 17	9·5	11 25 53·79	5	22 58 58·4	R
18	9·7	25 53·84	...	58 59·6	R
329		*Anon.*			
Apl. 23	10·0	11 26 13·85	...	128 25 44·5	R
330		*Anon.*			
Apl. 24	9·0	11 26 40·36	...	143 54 16·7	R
331		*Anon.*			
May 7	10·4	11 26 55·26	5	151 40 52·3	R
8	10·5	26 55·22	5	40 54·8	R
332		*Cordoba* 15790.			
Apl. 30	9·0	11 27 0·95	5	151 7 2·5	R
333		*Anon.*			
Apl. 25	10·2	11 27 8·07	5	151 44 33·5	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
334		*Anon.*			
Apl. 29	10·0	11 27 11·46	5	23 20 30·4	R
335		*Anon.*			
May 3	10·2	11 27 16·05	...	151 34 1·4	R
5	10·0	27 16·09	5	34 2·0	R
336		*Anon.*			
Apl. 28	9·5	11 27 28·47	...	23 0 30·0	R
May 9	9·0	27 28·59	5	0 31·7	R
337		91 *Leonis* υ			
Mar. 19	...	11 30 26·87	...	90 7 21·8	M
20	...	30 26·83	...	7 21·8	M
Apl. 16	...	30 26·76	...	7 19·7	R
May 1	...	30 26·77	...	7 22·4	R
2	...	30 26·85	...	7 21·7	R
338		*Anon.*			
Mar. 18	8·2	11 33 32·13	5	144 54 36·2	M
Apl. 22	9·7	33 31·85	...	54 37·0	R
23	9·5	33 31·82	5	54 37·0	R
339		*W. B. E.* XI. 582.			
Mar. 25	8·9	11 34 25·68	5	84 20 38·7	M
Apl. 21	9·7	34 25·50	5	20 38·4	R
29	9·0	34 25·54	...	20 38·6	R
30	8·9	34 25·62	...	20 38·6	R
May 6	8·5	34 25·51	...	20 39·0	R
13	8·5	34 25·54	...	20 37·3	R
16	9·0	34 25·55	...	20 39·0	R
340		2 *Virginis* ξ			
Mar. 19	5·0	11 38 44·22	...	81 2 9·4	M
21	5·0	38 44·19	...	2 10·4	M
24	5·0	38 44·47	...	2 10·0	M
341		4 *Virginis* A^1			
Mar. 20	5·7	11 41 23·37	...	81 2 55·6	M
27	5·8	41 23·49	...	2 55·2	M
28	5·7	41 23·48	...	2 55·6	M
342		*Anon.*			
Apl. 24	9·3	11 42 2·15	6	84 34 38·7	R
25	10·0	42 2·18	...	34 38·4	R
26	10·2	42 2·14	...	34 37·0	R
343		94 *Leonis* β, *Deneb.*			
Mar. 14	...	11 42 35·07	...	74 43 4·5	M
Apl. 4	...	42 34·87	...	43 4·4	R
17	...	42 34·77	...	43 4·9	R
22	...	42 34·79	...	43 5·1	R
29	...	42 34·82	...	43 4·8	R
May 3	...	42 34·81	...	43 5·6	R
13	...	42 34·80	...	43 4·9	R
344		*Bonn* $+5^{\circ}.2550$.			
Apl. 18	9·9	11 44 34·91	...	84 47 52·3	R
21	10·4	44 34·70	5	47 52·2	R
28	9·8	44 34·87	6	47 51·8	R
May 7	9·8	44 34·78	...	47 51·0	R
8	9·7	44 34·76	...	47 52·4	R
345		64 *Ursæ Majoris* γ			
Apl. 30	...	11 47 8·62	...	35 35 55·7	R
May 1	...	47 8·52	...	35 57·1	R
2	...	47 8·49	...	35 56·6	R
14	...	47 8·47	...	35 56·4	R
17	...	47 8·58	5	35 57·5	R
346		*W. B. E.* XI. 805.			
Mar. 18	7·9	11 47 58·31	...	85 15 24·1	M
19	7·9	47 58·18	...	15 21·2	M
24	7·9	47 58·12	...	15 22·4	M
31	8·8	47 58·58	4	15 21·9	R
Apl. 8	9·0	47 58·07	...	15 23·8	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
347	*Bonn* +4°.2550.				
Mar. 25	10·3	11 51 0·68	5	85 22 20·3	M
Apl. 24	10·3	51 0·85	4	22 20·6	R
May 6	10·2	51 0·81	5	22 19·6	R
348	*7 Virginis b*				
Mar. 20	4·9	11 53 26·74	6	85 38 16·8	M
349	*Taylor* 6413.				
Mar. 29	9·0	11 54 40·18	...	85 38 35·7	R
350	*Bonn* +3°.2592.				
Apl. 30	9·0	11 57 44·13	...	86 23 24·6	R
May 7	9·3	57 44·38	...	23 24·4	R
19	9·9	57 44·87	...	23 26·1	R
351	*O. A. S.* 11872.				
Apl. 23	8·5	11 57 46·71	...	110 19 55·7	R
26	8·5	57 46·56	...	19 54·0	R
29	9·0	57 46·71	...	19 53·9	R
May 5	8·5	57 46·66	...	19 55·0	R
6	8·0	57 46·69	...	19 54·2	R
352	*Taylor* 6440.				
Mar. 28	7·9	11 58 12·88	...	85 43 7·9	M
May 9	9·0	58 12·94	...	43 6·8	R
16	7·7	58 12·94	...	43 7·0	R
17	8·0	58 12·90	...	43 6·8	R
23	8·0	58 12·93	5	43 6·8	R
24	7·8	58 12·95	...	43 5·8	R
353	*R. P. L.* 89.				
Mar. 31	...	11 58 20·94	3	3 42 28·3	R
	R. P. L. 89—*s.p.*				
Sep. 27	...	11 58 21·28	3	3 42 34·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
354	*W. B. E.* XI. 986.				
Mar. 18	8·7	11 58 35·23	...	85 54 57·5	M
21	8·9	58 35·20	...	54 58·3	M
24	8·7	58 35·10	...	54 57·9	M
Apl. 12	9·0	58 35·00	...	54 58·6	M
14	9·0	58 35·24	...	54 57·4	M
24	9·0	58 35·17	...	54 58·3	R
May 8	8·8	58 34·86	...	54 55·6	R
13	9·7	58 35·07	6	54 57·5	R
14	9·0	58 35·06	5	54 57·6	R
355	9 *Virginis o*				
May 3	...	11 58 44·29	...	80 33 41·6	R
356	*W. B. E.* XI. 1058.				
Mar. 27	8·0	12 2 12·21	...	86 11 5·4	M
Apl. 5	...	2 12·11	...	11 5·0	R
25	8·7	2 12·17	...	11 4·4	R
May 1	...	2 12·19	...	11 5·4	R
20	8·7	2 12·18	...	11 4·5	R
21	9·0	2 12·22	...	11 5·1	R
357	2 *Corvi e*				
Mar. 19	...	12 3 35·87	...	111 54 48·5	M
25	...	3 35·73	...	54 49·3	M
29	...	3 35·72	...	54 49·5	R
31	...	3 35·68	...	54 44·8	R
Apl. 16	...	3 35·74	...	54 47·0	R
21	...	3 35·74	...	54 48·8	R
26	...	3 35·74	...	54 49·2	R
358	*Anon.*				
Apl. 29	8·8	12 4 6·50	...	146 0 4·2	R
359	*Anon.*				
May 6	9·0	12 4 18·16	6	145 59 21·5	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
360 *Lalande* 22869.					
Apl. 24	9·3	12 5 2·94	...	86 41 5·3	R
May 8	8·9	5 2·88	...	41 7·1	R
9	8·7	5 2·97	6	41 7·3	R
17	9·0	5 3·05	5	41 8·2	R
361 *Anon.*					
Apl. 30	9·8	12 6 30·97	...	130 14 7·9	R
May 7	10·0	6 30·81	...	14 7·0	R
362 *Anon.*					
Apl. 23	8·5	12 6 35·75	...	110 1 51·1	R
363 *W. B. E.* XII. 87.					
Mar. 20	7·1	12 7 26·78	...	87 1 58·5	M
Apl. 8	8·7	7 26·61	...	1 58·8	R
May 5	8·0	7 26·61	6	1 58·5	R
13	8·0	7 26·57	...	1 57·6	R
16	7·7	7 26·63	...	1 57·3	R
364 *Anon.*					
Mar. 18	8·0	12 9 18·64	...	144 23 16·1	M
365 *Lalande* 22983.					
May 3	9·0	12 9 34·67	...	96 45 36·3	R
366 *Lalande* 22993.					
Apl. 14	8·5	12 9 50·22	...	96 49 33·4	M
367 *W. B. E.* XII. 139.					
Apl. 18	9·5	12 10 37·90	...	87 34 56·4	R
May 8	9·2	10 37·80	...	34 56·4	R
9	9·0	10 37·89	...	34 57·1	R
14	9·5	10 37·68	...	34 56·1	R
368 *W. B. E.* XII. 155.					
Apl. 5	9·0	12 11 27·87	...	87 43 7·1	R
25	8·0	11 27·87	...	43 6·7	R
May 19	8·0	11 27·93	...	43 9·1	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
369 13 *Virginis.*					
Mar. 24	...	12 12 9·75	...	90 4 52·8	M
28	...	12 9·74	...	4 53·6	M
370 *Anon.*					
May 16	8·9	12 13 21·55	...	108 35 8·3	R
21	9·0	13 21·60	...	35 8·1	R
371 15 *Virginis* η					
Mar. 14	...	12 13 24·53	...	89 57 38·7	M
Apl. 12	...	13 24·51	...	57 40·1	M
16	...	13 24·51	...	57 37·8	R
17	...	13 24·53	...	57 39·8	R
24	...	13 24·50	...	57 39·8	R
26	...	13 24·55	...	57 39·6	R
28	...	13 24·63	...	57 39·2	R
29	...	13 24·56	...	57 37·9	R
May 6	...	13 24·54	...	57 39·3	R
13	...	13 24·50	...	57 38·9	R
372 *R. P. L.* 93—*s.p.*					
Sep. 10	...	12 14 17·84	3	1 35 48·6	M
373 *Anon.*					
May 6	9·5	12 19 7·93	6	143 33 9·7	R
374 *Anon.*					
May 8	9·4	12 19 28·94	...	129 46 49·5	R
9	9·6	19 29·21	...	46 49·9	R
375 *Anon.*					
Mar. 18	8·0	12 19 32·61	...	147 24 20·2	M
376 *α Crucis*—1st.					
Apl. 8	...	12 19 32·91	...	152 23 43·7	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
377		*a Crucis*—2nd.			
Mar. 31	...	12 19 33·68	...	152 28 45·2	R
Apl. 23	...	19 33·83	...	28 48·0	R
May 16	...	19 33·70	4	28 48·4	R
378		*Anon.*			
May 14	8·2	12 19 46·37	...	144 7 10·0	R
15	8·3	19 46·39	...	7 11·2	R
379		*Anon.*			
May 20	9·2	12 20 21·23	...	124 16 9·7	R
380		*Anon.*			
Apl. 29	9·0	12 21 36·12	...	145 45 16·7	R
381		*Anon.*			
May 21	9·2	12 21 40·01	...	147 28 50·3	R
382		*W. B. E.* XII. 347.			
Apl. 17	9·5	12 21 55·03	...	92 3 25·2	R
18	9·0	21 55·07	5	3 25·6	R
22	8·2	21 55·05	...	3 24·0	R
May 13	9·9	21 55·03	...	3 24·4	R
17	9·0	21 55·11	...	3 25·1	R
383		*Lalande* 23342.			
Mar. 21	7·0	12 22 39·00	...	91 43 36·8	M
24	7·6	22 39·02	...	43 36·4	M
28	7·0	22 38·79	...	43 35·5	M
Apl. 14	7·2	22 38·91	...	43 36·5	M
24	7·0	22 38·94	...	43 36·3	R
384		*Anon.*			
Apl. 25	10·0	12 23 41·63	5	87 4 1·8	R
385		*Anon.*			
Apl. 30	9·7	12 24 21·98	5	91 42 50·3	R
May 19	10·2	24 21·82	5	42 50·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
386		*Anon.*			
May 7	9·5	12 25 4·77	5	151 47 52·7	R
387		*Lalande* 23476.			
Mar. 20	9·1	12 27 16·67	...	94 32 30·6	M
Apl. 5	9·3	27 16·51	...	32 30·5	R
May 6	9·7	27 16·58	...	32 29·5	R
8	9·1	27 16·60	6	32 28·8	R
9	9·0	27 16·73	...	32 29·2	R
388		9 *Corvi* β			
Apl. 23	...	12 27 43·14	...	112 41 40·4	R
May 1	...	27 43·09	...	41 39·6	R
12	...	27 43·14	...	41 40·8	R
16	...	27 43·16	...	41 37·4	R
389		*Anon.*			
May 14	10·2	12 27 56·95	...	99 40 41·0	R
390		*Anon.*			
Apl. 12	8·5	12 28 18·50	...	141 42 56·2	M
391		25 *Virginis f*			
Mar. 27	6·1	12 30 14·87	...	95 7 53·0	M
392		*T Ursæ Majoris, Var.* 3.			
Apl. 25	8·7	12 30 36·20	5	29 48 48·3	R
26	9·2	30 36·00	...	48 47·3	R
28	9·0	30 36·12	...	48 47·6	R
May 3	...	30 35·98	...	48 47·9	R
5	8·7	30 36·03	...	48 48·5	R
393		*Anon.*			
Apl. 24	9·5	12 32 19·47	...	84 33 29·7	R
394		*Anon.*			
May 21	10·0	12 32 33·06	...	29 17 18·8	R
27	9·5	32 33·32	6	17 19·2	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
395		*Anon.*			
May 7	8·8	12 33 19·08	...	143 10 21·2	R
396		*Lalande* 23656.			
Mar. 24	8·0	12 33 36·08	...	95 17 9·8	M
Apl. 18	8·8	33 35·99	...	17 9·3	R
May 6	9·0	33 35·91	...	17 9·1	R
8	8·7	33 35·89	...	17 8·8	R
9	9·0	33 35·95	...	17 8·9	R
397		29 *Virginis* γ^1—*North.*			
May 13	...	12 35 13·47	...	90 45 6·4	R
19	...	35 13·39	6	45 9·3	R
23	...	35 13·45	...	45 6·7	R
24	...	35 13·38	5	45 6·6	R
398		29 *Virginis* γ^2—*South.*			
Apl. 22	...	12 35 13·62	...	90 45 12·4	R
23	...	35 13·64	...	45 14·3	R
May 1	...	35 13·58	...	45 12·1	R
16	...	35 13·60	...	45 12·1	R
17	...	35 13·67	...	45 12·7	R
20	...	35 13·51	...	45 12·8	R
399		28 *Virginis.*			
Apl. 14	6·0	12 35 23·78	5	96 48 5·2	M
400		*S Ursæ Majoris, Var.* 2.			
Apl. 4	9·0	12 38 22·64	4	28 12 39·3	R
25	8·0	38 22·47	6	12 38·6	R
26	8·3	38 22·30	...	12 38·1	R
30	7·8	38 22·48	...	12 38·1	R
401		35 *Virginis.*			
Mar. 18	6·0	12 41 23·56	6	85 44 1·8	M
21	6·0	41 23·54	...	44 0·9	M
27	6·0	41 23·46	...	43 58·6	M
May 3	6·8	41 23·45	...	44 1·1	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
402		*Anon.*			
May 8	9·4	12 42 34·39	4	147 19 27·7	R
403		*Anon.*			
May 5	9·0	12 48 21·32	...	139 28 16·0	R
404		*Anon.*			
May. 6	9·0	12 43 46·88	...	129 10 47·8	R
7	9·0	43 46·86	...	10 48·3	R
405		*U Virginis, Var.* 3.			
Apl. 18	8·3	12 44 38·88	6	83 45 18·7	R
May 16	9·5	44 39·14	...	45 18·3	R
17	9·7	44 39·18	...	45 19·4	R
406		37 *Virginis.*			
Apl. 5	...	12 45 9·05	...	86 15 10·4	R
407		*Radcliffe* 2922.			
Apl. 12	7·4	12 45 29·77	...	26 19 23·2	M
408		*R. P. L.* 98—*s.p.*			
Nov. 8	...	12 48 5·72	3	5 53 33·6	M
17	...	48 5·44	3	53 32·9	R
Dec. 16	...	48 6·07	3	53 33·6	M
409		43 *Virginis* δ			
Apl. 28	...	12 49 12·39	...	85 54 43·1	R
May 13	...	49 12·30	...	54 42·4	R
410		12 *Canum Venaticorum a*			
Mar. 21	...	12 50 4·96	...	50 59 44·4	M
Apl. 17	...	50 5·05	...	59 43·8	R
24	...	50 4·99	...	59 44·5	R
29	...	50 4·96	...	59 42·9	R
30	...	50 5·01	...	59 43·0	R
May 6	...	50 5·01	...	59 43·6	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
May 8	...	12 50 5·05	...	50 59 43·7	R
21	...	50 5·04	...	59 43·5	R
26	...	50 5·13	6	59 43·5	R
411		*Taylor* 5974.			
Apl. 18	8·8	12 52 25·92	...	143 41 32·1	R
May 7	8·5	52 25·71	5	41 32·3	R
412		44 *Virginis* κ			
May 9	...	12 53 7·09	...	93 7 36·3	R
12	...	53 7·01	...	7 37·4	R
16	...	53 7·08	...	7 35·6	R
413		*Anon.*			
May 7	9·0	12 53 47·92	5	143 43 18·7	R
414		*Anon.*			
Apl. 22	9·0	12 53 56·11	...	135 47 24·7	R
415		51 *Virginis* θ			
Mar. 18	...	13 3 22·48	...	94 51 39·2	M
Apl. 12	...	3 22·49	...	51 38·3	M
18	...	3 22·54	...	51 37·5	R
19	...	3 22·45	...	51 38·4	R
22	...	3 22·49	...	51 38·6	R
24	...	3 22·58	...	51 38·5	R
25	...	3 22·53	...	51 38·9	R
28	...	3 22·46	...	51 36·9	R
30	...	3 22·57	...	51 38·4	R
May 3	...	3 22·58	...	51 38·3	R
7	...	3 22·54	...	51 38·8	R
8	...	3 22·50	...	51 37·9	R
9	...	3 22·51	...	51 37·9	R
12	...	3 22·46	6	51 39·2	R
13	...	3 22·52	...	51 38·1	R
14	...	3 22·51	...	51 37·7	R
15	...	3 22·49	...	51 37·9	R
23	...	3 22·52	...	51 37·1	R
24	...	3 22·47	...	51 37·2	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
416		*Anon.*			
May 20	...	13 6 7·17	...	124 19 25·0	R
417		*W Virginis, Var.* 1.			
May 16	8·3	13 7 22·89	...	105 52 49·2	R
17	8·3	7 22·91	...	52 49·6	R
418		*Anon.*			
May 19	9·8	13 8 37·49	...	139 48 39·3	R
21	9·9	8 37·53	...	48 38·3	R
419		58 *Virginis.*			
Apl. 28	...	13 10 48·02	...	99 52 35·2	R
May 3	7·0	10 48·09	...	52 34·7	R
420		*O. A. N.* 13563.			
Apl. 12	7·0	13 15 44·79	...	27 56 6·0	M
421		67 *Virginis* α, *Spica.*			
Mar. 18	...	13 18 30·48	...	100 29 52·6	M
Apl. 18	...	18 30·18	...	29 53·2	R
21	...	18 30·22	...	29 52·5	R
22	...	18 30·26	...	29 52·9	R
25	...	18 30·21	...	29 53·1	R
26	...	18 30·18	...	29 53·4	R
28	...	18 30·24	...	29 52·5	R
May 3	...	18 30·16	...	29 53·9	R
14	...	18 30·32	...	29 52·8	R
16	...	18 30·28	...	29 51·5	R
422		79 *Ursæ Majoris* ζ, *Mizar—2nd.*			
May 2	...	13 18 49·87	...	84 24 51·9	R
423		*Stone* 7365.			
May 21	8·0	13 19 34·29	6	143 29 36·6	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
424		*Radcliffe* 3011.			
Apl. 17	9·0	13 19 47·81	...	84 26 27·2	R
May 28	...	19 47·64	...	26 25·2	R
425		*O. A. S.* 12872.			
May 5	9·5	13 19 50·65	...	116 59 17·8	R
426		*R. P. L.* 103.			
May 17	...	13 19 51·04	3	4 34 51·9	R
20	...	19 50·63	3	34 52·8	R
24	...	19 51·18	3	34 51·4	R
427		80 *Ursæ Majoris g*			
May 19	...	13 20 8·22	...	34 21 0·5	R
26	...	20 8·24	...	20 59·7	R
27	...	20 8·20	5	20 59·3	R
428		*Anon.*			
Apl. 14	8·5	13 27 9·50	...	131 37 59·6	M
429		79 *Virginis* ζ			
Apl. 30	...	13 28 13·34	...	89 56 45·8	R
May 1	...	28 13·31	...	56 45·1	R
5	...	28 13·41	...	56 47·9	R
6	...	28 13·35	...	56 45·0	R
7	...	28 13·36	...	56 46·0	R
9	...	28 13·36	...	56 45·4	R
12	...	28 13·33	...	56 45·7	R
14	...	28 13·33	...	56 45·4	R
15	...	28 13·30	...	56 45·4	R
16	...	28 13·27	...	56 44·6	R
17	...	28 13·42	...	56 46·5	R
19	...	28 13·38	...	56 47·6	R
20	...	28 13·31	...	56 46·0	R
21	...	28 13·37	...	56 45·1	R
23	...	28 13·39	...	56 45·5	R
24	...	28 13·41	...	56 45·4	R
26	...	28 13·28	...	56 46·3	R
27	...	28 13·35	...	56 46·4	R
June 2	...	28 13·37	...	56 45·6	R
6	...	28 13·37	...	56 46·0	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
430		*Bonn* +0°.3090.			
May 17	9·7	13 35 27·09	5	89 28 18·2	R
431		*Taylor* 6363.			
May 21	8·0	13 37 13·49	6	147 36 14·3	R
432		*Taylor* 6366.			
May 19	8·0	13 37 29·44	...	151 48 49·8	R
433		*O. A. S.* 13100.			
May 5	9·0	13 37 43·96	...	117 0 28·4	R
434		*Anon.*			
May 2	9·4	13 38 44·80	...	122 49 47·8	R
27	...	38 45·00	...	49 49·7	R
435		86 *Virginis.*			
May 1	...	13 39 10·32	...	101 47 20·6	R
23	...	39 10·38	...	47 20·8	R
26	...	39 10·28	...	47 22·1	R
436		85 *Ursæ Majoris* η			
Apl. 16	...	13 42 32·07	...	40 3 4·9	R
437		*Taylor* 6473.			
Apl. 17	8·0	13 48 18·41	...	97 25 59·0	R
29	7·0	48 18·60	...	25 59·5	R
June 2	8·0	48 18·52	...	25 58·3	R
438		8 *Böotis* η			
Apl. 17	...	13 48 38·18	6	70 57 53·0	M
May 19	...	48 38·30	...	57 53·9	R
20	...	48 38·37	...	57 53·2	R
21	...	48 38·28	...	57 52·8	R
23	...	48 38·28	...	57 52·2	R
26	...	48 38·28	...	57 53·9	R
June 6	...	48 38·34	...	57 53·0	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
439		*Anon.*			
May 2	9·0	13 52 52·28	6	151 88 16·3	R
27	8·0	52 52·36	5	88 19·2	R
440		93 *Virginis* τ			
May 7	...	13 55 11·03	...	87 50 23·7	R
8	...	55 11·05	...	50 24·4	R
9	...	55 11·07	...	50 23·7	R
14	...	55 11·02	...	50 23·7	R
24	...	55 11·05	...	50 23·0	R
June 10	...	55 11·05	5	50 23·3	R
441		*W. B. E.* XIII. 1023.			
May 15	9·7	13 59 2·99	...	102 5 39·6	R
23	...	59 3·11	...	5 38·2	R
June 2	9·0	59 3·00	5	5 39·0	R
442		*W. B. E.* XIII. 1070.			
May 17	8·5	14 1 35·32	...	101 57 40·5	R
26	8·5	1 35·29	...	57 41·5	R
27	9·0	1 35·32	...	57 41·6	R
443		*R. P. L.* 108.			
Apl. 17	...	14 2 45·90	2	3 38 9·1	M
		R. P. L. 108—*s.p.*			
Oct. 29	...	14 2 45·29	3	3 38 5·0	M
Dec. 9	...	2 44·13	3	38 3·7	R
11	...	2 45·09	3	38 3·8	R
444		*Anon.*			
May 15	10·2	14 5 16·96	4	102 9 22·7	R
445		*Anon.*			
Apl. 16	8·7	14 6 58·70	...	124 30 15·5	R
17	9·0	6 58·74	...	30 16·8	R
21	9·3	6 58·65	...	30 17·7	R
22	9·5	6 58·81	6	30 18·3	R
24	9·3	6 58·91	...	30 18·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
446		16 *Böotis a, Arcturus.*			
Apl. 19	...	14 9 52·32	...	70 9 20·2	R
May 17	...	9 52·22	...	9 17·6	R
June 10	...	9 52·12	...	9 18·8	R
447		*Anon.*			
Apl. 29	10·2	14 11 58·15	6	124 19 0·0	R
30	10·3	11 58·11	5	19 0·3	R
448		*Anon.*			
Apl. 26	9·7	14 12 1·70	...	124 30 6·2	R
449		*W. B. E.* XIV. 240.			
May 2	8·8	14 14 59·22	...	102 36 2·6	R
3	8·5	14 59·14	...	36 2·9	R
5	9·0	14 59·19	...	36 2·9	R
15	9·5	14 58·94	...	36 1·6	R
June 2	9·9	14 59·11	6	36 2·4	R
450		*Anon.*			
Apl. 28	...	14 15 51·60	4	122 14 5·1	R
451		2 *Libræ.*			
June 17	6·0	14 16 35·78	...	101 7 58·5	M
452		*W. B. E.* XIV. 280.			
May 9	9·0	14 16 50·65	...	102 24 7·4	R
14	9·2	16 50·53	...	24 7·0	R
17	8·0	16 50·73	...	24 8·1	R
27	9·3	16 50·51	...	24 9·0	R
June 6	8·2	16 50·65	5	24 7·6	R
453		*W. B. E.* XIV. 315.			
May 16	7·2	14 18 24·76	...	102 46 39·1	R
21	7·3	18 24·86	...	46 38·3	R
454		*W. B. E.* XIV. 360.			
May 1	8·0	14 20 52·23	...	102 47 14·7	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
455		*Anon.*			
Apl. 17	9·5	14 22 34·18	...	124 58 0·3	R
18	9·3	22 34·18	...	58 0·3	R
21	9·5	22 34·20	...	58 0·0	R
22	9·7	22 34·10	...	58 0·7	R
24	9·5	22 34·20	...	58 0·3	R
456		*W. B. E.* XIV. 392.			
Apl. 25	9·5	14 22 41·19	...	103 15 22·7	R
26	9·8	22 41·22	...	15 21·7	R
28	9·3	22 41·29	...	15 21·0	R
May 2	9·2	22 41·16	...	15 20·8	R
457		*W. B. E.* XIV. 410.			
Apl. 29	9·7	14 23 52·18	...	103 2 22·4	R
30	9·5	23 52·20	...	2 23·3	R
May 3	9·2	23 52·15	6	2 22·8	R
5	9·3	23 52·14	...	2 23·2	R
8	9·0	23 52·10	6	2 23·4	R
15	9·3	23 52·09	...	2 23·1	R
19	9·2	23 52·29	...	2 24·2	R
458		25 *Böotis* ρ			
June 10	...	14 26 21·44	3	59 4 13·2	R
21	...	26 21·38	...	4 12·2	R
459		*W. B. E.* XIV. 458.			
May 9	9·5	14 26 38·46	...	103 30 56·9	R
14	9·5	26 38·40	...	30 56·3	R
17	9·2	26 38·45	...	30 56·7	R
21	9·7	26 38·61	...	30 56·0	R
June 2	10·0	26 38·61	...	30 54·9	R
460		*W. B. E.* XIV. 512.			
Apl. 28	9·5	14 29 23·75	5	103 28 18·7	R
29	9·0	29 23·53	...	28 18·8	R
30	9·3	29 23·61	5	28 20·9	R
May 1	9·5	29 23·57	...	28 19·2	R
2	9·0	29 23·58	5	28 19·9	R
May 15	9·0	14 29 23·45	6	103 28 18·9	R
19	9·2	29 23·71	6	28 21·8	R
20	9·3	29 23·65	...	28 20·7	R
461		*a Centauri*—1*st*.			
May 6	...	14 30 58·98	...	150 18 42·9	R
462		*Taylor* 7734.			
Apl. 18	7·5	14 31 10·85	5	125 2 31·6	R
21	7·0	31 10·96	...	2 32·4	R
22	7·5	31 10·78	...	2 31·8	R
24	8·0	31 10·78	...	2 32·8	R
25	7·7	31 10·62	...	2 31·5	R
463		*Anon.*			
May 8	8·3	14 33 28·59	...	126 20 8·9	R
464		36 *Böotis* ε, *Mirac.*			
May 17	...	14 39 26·35	...	62 23 20·7	R
June 17	...	39 26·41	...	23 20·6	M
21	...	39 26·44	...	23 19·7	M
28	...	39 26·45	4	23 19·8	M
465		*Anon.*			
May 5	8·0	14 40 57·87	6	127 6 5·0	R
6	9·2	40 58·07	...	6 4·5	R
9	9·4	40 58·18	...	6 5·1	R
466		*Anon.*			
May 7	9·3	14 42 58·72	...	129 9 6·2	R
467		9 *Libræ* a^2			
May 19	...	14 43 51·27	...	105 30 47·3	R
20	...	43 51·27	...	30 47·3	R
27	...	43 51·36	...	30 47·5	R
June 2	...	43 51·36	...	30 46·2	R
6	...	43 51·26	4	30 45·5	R
19	...	43 51·41	...	30 44·7	M
28	...	43 51·40	...	30 44·4	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
468		*Anon.*			
May 8	8·0	14 45 58·45	...	101 51 37·9	R
469		7 *Ursæ Minoris β, Var.* 1.			
May 9	...	14 51 6·31	...	15 19 32·3	R
470		*Anon.*			
June 28	9·0	14 52 8·60	...	123 14 56·8	M
471		*O. A. N.* 15004.			
June 23	8·0	14 54 10·51	6	39 23 13·3	M
472		*Radcliffe* 3306.			
May 8	7·7	14 56 18·71	...	42 13 12·5	R
16	7·5	56 18·64	...	13 12·2	R
June 17	7·7	56 18·78	...	13 10·4	M
473		*Anon.*			
May 14	8·5	14 58 17·32	...	131 32 49·0	R
474		43 *Böotis* ψ			
June 2	...	14 59 0·23	...	62 33 21·5	R
21	...	59 0·29	...	33 20·2	M
27	...	59 0·00	6	33 21·2	M
475		*W. B. E.* XV. 86.			
May 16	9·8	15 7 0·17	6	98 3 54·4	R
476		27 *Libræ β*			
June 23	...	15 10 10·43	...	98 54 45·0	M
28	...	10 10·45	...	54 45·3	M
477		*Taylor* 8048.			
May 14	6·5	15 12 42·85	...	68 57 41·6	R
15	...	12 42·83	...	57 39·9	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
478		*W. B. E.* XV. 290.			
May 23	...	15 17 30·59	6	102 27 14·6	R
479		*Lacaille* 6377.			
May 16	7·0	15 19 29·27	...	130 12 49·6	R
480		*Anon.*			
June 26	8·3	15 22 58·93	...	125 12 5·0	M
481		*Anon.*			
May 21	9·0	15 23 12·13	5	151 38 57·2	R
482		*Radcliffe* 3394.			
May 24	8·0	15 25 20·79	...	41 50 59·2	R
26	8·3	25 20·65	...	51 0·0	R
483		*Anon.*			
June 27	8·0	15 25 34·50	...	122 45 33·3	M
July 11	8·1	25 34·33	...	45 31·6	M
484		*Lacaille* 6421.			
June 21	8·0	15 26 12·96	...	122 44 25·9	M
485		*Lalande* 28320.			
May 19	8·5	15 26 59·22	...	103 48 1·8	R
486		5 *Coronæ Borealis a, Alpheta.*			
May 27	...	15 29 18·69	...	62 51 24·9	R
June 5	...	29 18·76	...	51 24·3	R
28	...	29 18·65	3	51 22·7	M
July 9	...	29 18·71	6	51 23·9	M
487		*W. B. E.* XV. 557.			
May 20	8·0	15 30 55·08	...	104 6 37·9	R
23	...	30 55·09	...	6 37·3	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
488 *W. B. E.* XV. 564.					
May 21	7·2	15 31 24·39	...	104 5 45·0	R
June 6	7·5	31 24·37	...	5 46·4	R
489 *W. B. E.* XV. 675.					
May 19	9·0	15 36 26·31	...	102 43 14·8	R
490 24 *Serpentis a*					
June 5	...	15 38 0·74	6	83 10 23·2	R
19	...	38 0·66	...	10 22·7	M
23	...	38 0·72	...	10 23·1	M
25	...	38 0·74	4	10 23·4	M
26	...	38 0·82	...	10 24·1	M
27	...	38 0·94	...	10 22·6	M
28	...	38 0·81	...	10 23·3	M
491 *O. A. S.* 14840.					
June 10	8·3	15 38 16·34	...	114 18 51·8	R
July 11	8·0	38 16·58	...	18 51·1	M
492 *Anon.*					
June 6	9·7	15 41 49·05	...	62 4 59·0	R
493 36 *Serpentis b*					
June 21	...	15 44 39·01	...	92 42 16·6	M
July 9	...	44 38·83	...	42 16·0	M
494 *O. A. S.* 14963.					
May 23	...	15 44 59·26	5	108 3 12·4	R
24	8·0	44 59·31	6	3 13·0	R
495 1 *Herculis* χ					
May 26	...	15 48 17·10	...	47 11 30·4	R
June 26	...	48 17·09	...	11 31·3	M
496 *Lalande* 28970.					
June 27	8·0	15 48 22·26	...	70 50 43·7	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
497 *Lalande* 28980.					
June 28	6·0	15 49 24·67	...	104 27 22·0	M
498 *W. B. E.* XV. 923.					
May 20	9·7	15 49 48·25	...	104 57 39·1	R
21	9·7	49 48·26	...	57 39·3	R
499 49 *Libræ.*					
June 23	5·9	15 53 12·40	6	106 9 27·2	M
July 9	5·9	53 12·18	...	9 26·5	M
500 *W. B. E.* XV. 1044.					
May 24	7·2	15 56 18·57	...	95 28 45·6	R
27	8·0	56 18·58	...	28 44·6	R
501 51 *Scorpii* ξ					
May 23	...	15 57 23·07	...	101 1 15·4	R
502 8 *Scorpii* β^1					
June 5	...	15 58 3·29	...	109 27 21·2	R
25	...	58 3·23	...	27 20·5	M
July 26	...	58 3·36	...	27 20·9	M
503 *Anon.*					
June 21	8·3	16 0 28·96	5	105 17 52·4	M
504 *Lalande* 29414.					
June 6	8·7	16 2 49·15	...	102 32 58·4	R
505 *O. A. S.* 15416.					
May 27	8·0	16 7 0·89	...	110 46 57·1	R
June 5	7·5	7 0·88	5	46 55·7	R
506 1 *Ophiuchi* δ					
June 25	...	16 7 41·55	...	98 21 56·0	M
26	...	7 41·42	...	21 57·5	M
27	...	7 41·57	...	21 56·9	M
July 9	...	7 41·41	...	21 56·0	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
507	*Lalande* 29610.				
July 11	8·2	16 8 40·96	...	105 33 55·6	M
508	*O. A. S.* 15504.				
July 29	9·0	16 11 52·45	...	106 42 46·7	M
509	*O. A. S.* 15613.				
June 5	8·0	16 17 47·27	...	113 9 53·8	B
26	7·9	17 47·38	...	9 55·0	M
510	7 *Ophiuchi* χ				
July 11	...	16 19 39·99	...	108 9 57·7	M
511	21 *Scorpii a, Antares.*				
June 19	...	16 21 37·42	...	116 8 50·7	M
July 9	...	21 37·37	...	8 51·0	M
25	...	21 37·46	4	8 51·6	M
512	23 *Scorpii* τ				
June 21	...	16 27 58·80	6	117 57 1·4	M
July 11	...	27 58·70	5	57 0·6	M
513	13 *Ophiuchi* ζ				
July 26	...	16 30 9·94	...	100 18 26·7	M
31	...	30 9·97	...	18 27·2	M
514	*Taylor* 7723.				
July 9	5·9	16 34 13·76	4	107 20 40·0	M
515	*Taylor* 7724.				
July 29	7·0	16 34 25·80	6	109 40 44·7	M
516	40 *Herculis* ζ				
July 4	...	16 36 29·91	...	58 9 57·5	M
11	...	36 29·91	5	9 58·0	M
25	...	36 30·08	5	9 56·8	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
517	20 *Ophiuchi.*				
June 23	...	16 42 48·70	...	100 33 21·5	M
July 26	5·5	42 48·70	...	33 21·0	M
518	*Anon.*				
June 25	8·7	16 46 51·46	...	136 38 30·2	M
26	8·6	46 51·46	...	38 29·1	M
July 11	8·5	46 51·62	...	38 28·6	M
29	8·6	46 51·63	...	38 28·0	M
519	27 *Ophiuchi* κ				
June 14	...	16 51 39·40	...	80 25 32·1	B
July 4	...	51 39·41	...	25 32·5	M
520	29 *Ophiuchi.*				
June 19	...	16 54 25·72	...	108 41 47·4	M
521	22 *Ursæ Minoris* ϵ—*s.p.*				
Jan. 6	...	16 59 3·33	3	7 45 25·3	M
14	...	59 4·17	3	45 26·1	M
20	...	59 3·36	2	45 27·9	M
24	...	59 3·56	3	45 26·9	M
522	*Taylor* 7926.				
July 11	7·9	17 0 26·17	...	136 51 50·4	M
523	35 *Ophiuchi* η				
June 26	...	17 3 5·64	...	105 33 55·0	M
July 9	...	3 5·61	...	33 55·1	M
26	...	3 5·66	...	33 54·7	M
524	*Anon.*				
June 25	8·0	17 4 40·99	...	59 7 56·8	M
525	*Lacaille* 7168.				
July 29	7·9	17 5 12·69	5	128 8 25·4	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
526	64 *Herculis* a^1, *Var.* 1.				
June 17	...	17 8 51·38	...	75 27 46·9	M
July 11	...	8 51·49	...	27 47·8	M
26	..	8 51·38	...	27 47·5	M
31	...	8 51·47	...	27 47·3	M
527	42 *Ophiuchi* θ				
July 17	...	17 14 12·71	...	114 52 13·2	M
Aug. 7	...	14 12·66	...	52 12·5	R
528	44 *Ophiuchi b*				
June 26	5·0	17 18 36·78	...	114 3 22·3	M
529	45 *Ophiuchi d*				
June 28	4·3	17 19 14·68	...	119 44 59·2	M
530	*Brisbane* 6091.				
Aug. 8	8·5	17 22 6·60	...	148 27 32·2	R
9	9·0	22 6·87	...	27 31·8	R
531	23 *Draconis* β				
Aug. 7	...	17 27 33·73	...	37 36 14·0	R
532	*Anon.*				
Aug. 11	8·8	17 27 47·29	...	150 36 3·8	R
533	*Taylor* 8129.				
July 17	8·2	17 28 8·35	...	77 23 49·2	M
26	8·0	28 8·31	...	23 48·1	M
534	55 *Ophiuchi a*				
June 26	...	17 29 2·35	...	77 20 44·5	M
July 4	...	29 2·48	...	20 44·2	M
14	...	29 2·34	...	20 43·8	M
31	...	29 2·34	...	20 44·9	M
Aug. 5	...	29 2·28	...	20 45·4	R
535	56 *Serpentis o*				
Aug. 9	...	17 34 16·64	...	102 48 18·5	R
536	*Anon.*				
Aug. 8	10·2	17 35 10·93	5	126 15 23·1	R
537	*Anon.*				
Aug. 11	9·2	17 36 51·76	...	150 36 23·8	R
538	*Anon.*				
July 26	8·0	17 40 32·21	...	126 28 33·6	M
Aug. 12	9·3	40 32·48	...	28 34·7	R
539	86 *Herculis* μ				
June 17	...	17 41 29·41	4	62 12 11·8	M
July 29	...	41 29·22	...	12 13·7	M
31	...	41 29·27	...	12 12·6	M
Aug. 7	...	41 29·28	...	12 13·1	R
540	*Anon.*				
Aug. 15	9·7	17 41 39·23	...	118 27 36·2	R
541	*Radcliffe* 3765.				
Aug. 8	8·6	17 43 34·79	5	17 32 7·5	R
542	31 *Draconis* ψ^1				
July 4	5·0	17 44 12·47	...	17 47 22·4	M
11	5·0	44 12·44	5	47 22·0	M
17	5·1	44 12·51	5	47 21·2	M
543	*Anon.*				
Aug. 11	8·7	17 51 31·50	...	152 7 40·8	R
15	9·0	51 31·62	...	7 41·1	R
544	*Anon.*				
Aug. 13	...	17 52 37·15	...	180 49 36·0	R
14	9·2	52 37·21	6	49 37·2	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
545		33 *Draconis* γ			
July 9	...	17 53 39·84	...	38 29 43·7	M
546		9 *Sagittarii.*			
June 25	6·4	17 56 5·82	...	114 21 38·8	M
26	6·6	56 5·12	6	21 39·4	M
547		*Bonn* +30°. 3133.			
July 4	7·9	18 3 24·04	...	59 1 8·9	M
548		*T Herculis, Var.* 4.			
Aug. 11	8·9	18 4 17·77	...	59 0 0·1	R
13	9·2	4 17·74	6	58 59 59·7	R
14	9·0	4 17·78	6	59 0 0·3	R
549		13 *Sagittarii* μ			
July 11	...	18 6 10·02	...	111 5 23·4	M
14	...	6 10·04	...	5 20·1	M
26	...	6 9·99	5	5 22·8	M
29	...	6 10·00	...	5 22·7	M
Aug. 5	...	6 10·15	...	5 23·9	R
7	...	6 10·08	...	5 22·8	R
8	...	6 10·09	...	5 23·1	R
20	...	6 10·15	...	5 24·7	R
550		14 *Sagittarii.*			
Aug. 15	6·0	18 6 38·13	...	111 44 40·8	R
551		*Lacaille* 7644.			
Aug. 12	7·0	18 9 35·69	...	132 19 56·2	R
552		23 *Ursæ Minoris* δ			
June 25	...	18 18 19·12	8	3 23 36·5	M
July 9	...	18 17·75	2	23 33·9	M
		23 *Ursæ Minoris* δ—*s.p.*			
Jan. 9	...	18 18 17·97	8	3 23 35·9	M
29	...	18 18·59	3	23 32·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
553		24 *Ursæ Minoris—s.p.*			
Feb. 20	...	18 17 47·74	2	3 0 54·6	M
554		22 *Sagittarii* λ			
June 23	...	18 20 7·82	...	115 29 21·7	M
555		*Taylor* 8509.			
July 14	...	18 21 57·61	4	104 38 39·9	M
Aug. 5	...	21 57·57	...	38 39·9	R
556		*Taylor* 8516.			
July 17	6·0	18 22 31·94	...	104 39 47·9	M
29	6·0	22 32·27	...	39 47·8	M
Aug. 7	...	22 32·15	...	39 48·2	R
557		*O. A. S.* 18326.			
Aug. 9	9·0	18 23 55·15	...	109 14 37·4	R
558		*V Sagittarii, Var.* 5.			
Aug. 14	8·8	18 23 57·35	...	108 20 53·9	R
559		*Taylor* 8527.			
Sep. 3	6·3	18 23 59·54	6	108 29 14·0	M
560		*U Sagittarii, Var.* 4.			
Aug. 11	8·0	18 24 24·44	...	109 12 41·2	R
12	...	24 24·55	5	12 41·8	R
13	7·5	24 24·48	...	12 42·0	R
15	7·8	24 24·48	...	12 41·4	R
561		3 *Lyræ a*			
July 14	...	18 32 38·30	...	51 20 1·3	M
Aug. 5	...	32 38·26	...	20 0·2	R
8	...	32 38·33	...	20 0·0	R
9	...	32 38·23	...	19 59·6	R
27	...	32 38·22	4	20 0·0	R

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
562		*Anon.*			
July 11	8·9	18 35 18·49	...	118 34 10·1	M
563		*Anon.*			
Aug. 15	9·8	18 35 40·44	5	137 15 50·0	R
564		*R Scuti, Var.* 1.			
Aug. 11	7·0	18 40 42·08	...	95 50 21·3	R
12	...	40 42·16	...	50 21·7	R
565		*O. A. S.* 18773.			
Aug. 9	9·0	18 44 59·94	...	118 17 42·1	R
13	9·0	44 59·19	...	17 42·4	R
15	8·8	44 59·07	...	17 42·9	R
Sep. 10	8·4	44 59·26	...	17 41·5	M
566		10 *Lyræ* β			
July 17	...	18 45 28·41	...	56 47 0·1	M
Aug. 8	...	45 28·39	...	47 1·0	R
20	...	45 28·35	...	47 2·1	R
Sep. 8	...	45 28·38	...	46 59·8	M
567		32 *Sagittarii* ν^1			
July 14	5·4	18 46 29·96	...	112 53 55·7	M
26	5·0	46 30·04	...	53 54·8	M
568		*R. P. L.* 131—*s.p.*			
Feb. 5	...	18 56 7·15	2	3 27 15·2	M
11	...	56 7·37	3	27 15·1	M
26	...	56 6·77	3	27 15·1	M
Mar. 6	...	56 7·12	3	27 14·8	M
10	...	56 7·36	3	27 16·3	M
569		17 *Aquilæ* ζ			
July 17	...	18 59 34·29	...	76 19 25·6	M
29	...	59 34·42	...	19 25·1	M
Aug. 9	...	59 34·36	...	19 24·7	R
20	...	59 34·38	4	19 27·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
570		*R Aquilæ, Var.* 3.			
Aug. 8	8·0	19 0 15·25	...	81 57 37·0	R
11	7·2	0 15·07	...	57 37·1	R
12	...	0 15·17	...	57 38·2	R
13	7·2	0 15·16	6	57 37·2	R
14	7·3	0 15·26	5	57 37·2	R
15	7·0	0 15·06	...	57 37·6	R
Sep. 16	7·4	0 15·32	...	57 38·8	M
571		*Anon.*			
Sep. 15	9·0	19 7 43·37	...	129 46 49·4	M
572		42 *Sagittarii* ψ			
July 14	5·3	19 7 45·10	...	115 28 25·3	M
Sep. 10	5·0	7 45·04	...	28 22·8	M
573		*Anon.*			
Sep. 16	8·6	19 10 49·78	...	146 12 4·1	M
574		*O. A. S.* 19353.			
Aug. 14	9·0	19 10 52·95	...	116 18 4·4	R
575		*O. A. S.* 19366.			
Aug. 15	9·0	19 11 11·63	...	116 16 8·3	R
Sep. 20	8·0	11 11·49	6	16 9·3	M
576		25 *Aquilæ* ω			
Aug. 11	...	19 11 51·32	...	78 37 52·7	R
12	...	11 51·32	...	37 53·8	R
13	...	11 51·16	...	37 53·5	R
27	...	11 51·27	...	37 54·6	R
577		45 *Sagittarii* ρ^2			
July 17	6·0	19 14 26·24	...	108 32 29·9	M
Sep. 9	6·0	14 26·46	5	32 30·3	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
578		30 *Aquilæ* δ			
Aug. 11	...	19 19 5·63	...	87 8 10·8	R
12	...	19 5·62	...	8 10·5	R
13	...	19 5·64	6	8 10·8	R
14	...	19 5·66	...	8 11·1	R
15	...	19 5·54	...	8 10·7	R
27	...	19 5·46	...	8 12·5	R
Sep. 8	...	19 5·75	3	8 10·5	M
11	...	19 5·47	...	8 10·2	M
12	...	19 5·53	6	8 10·6	M
579		*Anon.*			
July 14	9·2	19 25 46·16	...	127 48 16·2	M
Aug. 29	9·2	25 46·01	4	48 13·7	M
580		52 *Sagittarii* h^2			
Sep. 8	...	19 28 58·41	...	115 9 41·9	M
10	...	28 58·57	...	9 42·0	M
581		*Lacaille* 8173.			
Sep. 15	8·2	19 32 19·41	...	143 14 21·8	M
582		*O. A. S.* 19847.			
Sep. 9	8·5	19 32 54·83	...	108 10 51·1	M
11	8·6	32 54·76	...	10 51·2	M
16	8·6	32 54·77	...	10 51·3	M
20	8·5	32 54·82	...	10 50·9	M
27	8·5	32 54·75	...	10 51·7	M
583		13 *Cygni* θ			
July 17	...	19 33 2·11	...	40 4 15·9	M
29	...	33 2·29	...	4 12·6	M
584		*Anon.*			
Aug. 11	9·0	19 33 24·86	...	40 5 6·1	R
13	9·3	33 24·30	...	5 6·3	R
14	9·7	33 24·24	5	5 7·8	R
15	9·7	33 24·29	...	5 6·5	R
29	9·8	33 24·43	...	5 7·5	R
585		50 *Aquilæ* γ			
Aug. 27	...	19 40 13·33	6	79 41 42·6	R
Sep. 3	...	40 13·25	...	41 40·2	M
8	...	40 13·36	...	41 38·9	M
10	...	40 13·24	...	41 39·5	M
586		*S Vulpeculæ, Var.* 2.			
Sep. 11	8·6	19 43 11·37	...	63 1 41·9	M
15	8·6	43 11·44	...	1 42·1	M
16	8·6	43 11·47	...	1 42·1	M
587		53 *Aquilæ a, Altair.*			
Aug. 29	...	19 44 35·11	...	81 27 54·8	R
Sep. 25	...	44 35·22	...	27 55·2	M
588		*Lacaille* 8249.			
Aug. 9	8·2	19 44 39·10	...	122 17 58·8	R
Sep. 20	7·4	44 39·26	...	18 0·0	M
589		57 *Sagittarii.*			
July 14	5·9	19 44 49·04	...	109 21 56·4	M
17	5·8	44 49·00	...	21 56·1	M
590		χ *Cygni, Var.* 2.			
Sep. 9	6·1	19 45 41·13	...	57 24 21·9	M
19	5·9	45 41·13	...	24 22·1	M
26	5·9	45 40·99	...	24 21·6	M
27	5·9	45 41·08	...	24 22·4	M
29	5·9	45 41·11	...	24 21·3	M
591		60 *Aquilæ* β			
Aug. 11	...	19 49 4·40	6	83 54 31·0	R
12	...	49 4·40	...	54 31·9	R
29	...	49 4·46	...	54 30·7	R
Sep. 8	...	49 4·53	...	54 31·6	M
12	...	49 4·49	...	54 30·8	M
592		λ *Ursæ Minoris.*			
Sep. 10	...	19 51 18·21	2	1 4 26·4	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
593		*Anon.*			
Aug. 9	...	19 56 23·07	4	151 50 11·4	R
Sep. 15	9·1	56 22·91	...	50 14·1	M
594		*Lacaille* 8370.			
Sep. 22	7·5	20 7 45·40	...	152 17 41·0	M
595		*Anon.*			
Sep. 19	7·5	20 10 13·48	...	149 7 25·2	M
20	7·7	10 13·67	...	7 27·1	M
596		5 *Capricorni* α^1			
Aug. 7	...	20 10 36·35	...	102 53 55·4	R
18	...	10 36·42	...	53 56·1	R
597		6 *Capricorni* α^2			
Aug. 9	...	20 11 0·36	...	102 56 12·1	R
14	...	11 0·56	...	56 13·9	R
15	...	11 0·22	...	56 12·8	R
29	...	11 0·42	...	56 11·9	R
Sep. 5	...	11 0·34	...	56 12·9	M
13	...	11 0·34	...	56 11·5	M
Oct. 10	...	11 0·19	6	56 15·0	M
598		*Anon.*			
Sep. 9	8·0	20 11 46·05	...	106 15 5·8	M
10	8·0	11 46·00	...	15 5·1	M
599		9 *Capricorni* β			
Sep. 25	3·9	20 13 52·65	6	105 10 51·7	M
600		*a Pavonis*			
Aug. 8	...	20 15 35·39	...	147 8 23·2	R
601		11 *Capricorni* ρ			
Aug. 13	...	20 21 36·86	...	108 13 54·5	R
15	...	21 36·89	...	13 53·9	R
Sep. 4	...	21 36·98	...	13 53·9	M
11	...	21 36·88	...	13 52·5	M
12	...	21 36·85	...	13 53·4	M
13	...	21 36·83	...	13 52·5	M
16	...	21 36·65	...	13 54·3	M
22	...	21 36·92	...	13 53·0	M
23	...	21 36·94	...	13 53·4	M
Oct. 10	...	21 36·89	6	13 53·8	M
15	...	21 36·91	6	13 53·4	M
602		*Anon.*			
Sep. 20	8·9	20 23 33·27	...	125 56 45·4	M
603		*Anon.*			
Sep. 26	8·3	20 23 50·13	...	124 55 16·8	M
27	8·3	23 50·20	...	55 16·4	M
604		*Anon.*			
Aug. 8	9·0	20 26 54·36	...	150 16 30·1	R
Sep. 9	8·6	26 54·27	...	16 32·6	M
605		*R. P. L.* 143.			
Sep. 19	...	20 28 25·82	3	5 16 40·5	M
		R. P. L. 143—*s.p.*			
Mar. 3	...	20 28 26·08	3	5 16 41·8	M
18	...	28 26·51	3	16 40·8	M
606		*Anon.*			
Oct. 6	9·0	20 30 26·15	6	143 50 10·3	M
607		*Anon.*			
Sep. 15	8·0	20 31 36·61	...	149 53 33·3	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
608		14 *Capricorni* τ^2			
July 25	...	20 32 10·12	...	105 23 54·2	M
609		*S Capricorni, Var.* 2.			
Sep. 22	8·9	20 34 28·38	...	109 30 28·6	M
610		50 *Cygni a, Deneb.*			
July 25	...	20 37 5·93	4	45 10 21·0	M
Aug. 14	...	37 5·86	...	10 21·9	R
Sep. 4	...	37 6·14	...	10 20·3	M
5	...	37 5·91	...	10 21·0	M
18	...	37 6·24	...	10 21·1	M
25	...	37 6·04	...	10 22·0	M
29	...	37 6·15	...	10 21·2	M
Oct. 18	...	37 6·13	6	10 20·9	M
611		*Anon.*			
Sep. 20	9·3	20 38 48·56	...	143 1 23·1	M
26	9·3	38 48·61	...	1 24·6	M
612		*W. B. E.* XX. 1024.			
Sep. 27	9·3	20 41 23·16	...	105 22 20·1	M
613		32 *Vulpeculæ.*			
Sep. 4	...	20 49 8·73	...	62 25 27·3	M
10	...	49 8·90	...	25 27·2	M
15	...	49 8·83	...	25 27·6	M
18	...	49 8·78	...	25 31·6	M
22	...	49 8·83	...	25 28·1	M
23	...	49 8·75	...	25 27·8	M
25	...	49 8·92	...	25 28·9	M
26	...	49 8·69	...	25 28·0	M
27	...	49 8·73	...	25 27·4	M
29	...	49 8·89	...	25 27·0	M
614		61 *Cygni*—1*st*.			
Oct. 3	...	21 1 12·22	...	51 52 26·5	R
615		*Anon.*			
Sep. 19	9·3	21 1 44·03	...	119 58 15·9	M
22	9·3	1 44·00	...	58 16·0	M
616		*Anon.*			
Sep. 26	9·5	21 1 45·08	...	120 0 31·1	M
617		64 *Cygni* ζ			
Sep. 5	...	21 7 31·92	5	60 17 33·4	M
9	...	7 32·07	...	17 34·9	M
11	...	7 31·94	...	17 34·5	M
15	...	7 31·84	...	17 34·2	M
16	...	7 31·96	...	17 34·6	M
18	...	7 31·85	...	17 34·7	M
20	...	7 31·93	...	17 35·0	M
23	...	7 31·85	...	17 33·7	M
27	...	7 31·82	...	17 34·8	M
29	...	7 31·83	...	17 34·0	M
Oct. 3	...	7 31·81	...	17 35·5	R
6	...	7 31·72	...	17 35·3	M
7	...	7 31·92	...	17 34·2	M
18	...	7 31·93	6	17 35·1	M
21	...	7 31·80	6	17 34·8	M
618		32 *Capricorni* ι			
Sep. 10	...	21 15 10·44	...	107 22 26·3	M
11	...	15 10·36	...	22 25·6	M
12	...	15 10·31	...	22 26·8	M
619		5 *Cephei* α			
Oct. 22	...	21 15 32·70	6	27 57 6·6	M
620		22 *Aquarii* β			
Sep. 13	...	21 24 52·22	...	96 7 42·3	M
16	...	24 52·31	...	7 43·5	M
19	...	24 52·30	...	7 42·6	M
26	...	24 52·38	...	7 43·2	M
27	...	24 52·43	...	7 43·6	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
Oct. 2	...	21 24 52·88	...	96 7 41·1	R
3	...	24 52·80	...	7 43·3	R
4	...	24 52·80	...	7 43·3	R
6	...	24 52·83	...	7 43·3	M
7	...	24 52·81	...	7 42·5	M
10	...	24 52·81	6	7 43·4	M
11	...	24 52·83	6	7 43·3	M
21	...	24 52·36	6	7 43·1	M
22	...	24 52·49	6	7 43·1	M
621		*8 Cephei β*			
Sep. 18	...	21 27 1·31	...	19 59 48·7	M
23	...	27 0·83	...	59 47·3	M
25	...	27 0·98	...	59 48·0	M
29	...	27 0·78	...	59 46·9	M
622		*Anon.*			
Sep. 15	8·6	21 30 22·13	...	98 23 1·6	M
623		*8 Pegasi ε*			
Oct. 2	...	21 37 56·92	...	80 42 21·0	R
3	...	37 56·93	...	42 22·0	R
4	...	37 56·86	...	42 23·3	R
7	...	37 56·81	...	42 20·9	M
624		*μ Cephei, Var.* 2.			
Aug. 29	...	21 39 37·11 (40)	5	31 48 5·7	M
Oct. 6	5·0	39 37·41	...	48 6·9	M
25	5·4	39 37·31	6	48 6·7	M
625		*48 Capricorni λ*			
Sep. 18	...	21 39 41·74	...	101 57 3·1	M
25	...	39 41·89	...	57 3·2	M
626		*16 Pegasi.*			
Sep. 9	...	21 47 16·98	...	64 40 18·3	M
19	...	47 17·08	...	40 18·3	M
20	...	47 17·13	...	40 19·7	M
22	...	47 16·87	4	40 18·7	M
Oct. 2	...	21 47 16·95	...	64 40 17·6	R
15	...	47 16·90	6	40 18·6	M
18	...	47 17·04	6	40 18·2	M
27	...	47 17·12	6	40 16·9	M
627		*ε Indi.*			
Sep. 11	5·5	21 53 38·29	...	147 18 24·5	M
12	5·9	53 38·28	...	18 25·1	M
15	5·6	53 38·17	...	18 24·8	M
628		*34 Aquarii a*			
Oct. 11	...	21 59 15·47	6	90 56 8·3	M
15	...	59 15·62	6	56 9·7	M
629		*a Gruis.*			
Sep. 25	...	22 0 13·35	...	137 34 28·7	M
29	...	0 13·58	...	34 28·4	M
Oct. 2	...	0 13·32	...	34 27·6	R
3	...	0 13·29	...	34 28·0	R
10	...	0 13·06	6	34 25·3	M
28	...	0 13·13	6	34 29·1	M
30	...	0 13·58	6	34 30·2	M
630		*Anon.*			
Sep. 20	8·0	22 0 29·20	...	115 0 38·0	M
26	8·0	0 29·39	...	0 39·5	M
27	7·9	0 29·41	...	0 38·7	M
Oct. 6	8·0	0 29·31	...	0 37·5	M
631		*Anon.*			
Oct. 4	10·0	22 2 30·68	...	114 57 12·0	R
632		*38 Aquarii e^2*			
Oct. 18	...	22 3 49·88	6	102 11 19·9	M
31	...	3 49·93	6	11 20·2	M
Nov. 1	5·7	3 50·00	6	11 21·1	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
633		*O. A. S.* 22014.			
Sep. 11	7·3	22 7 40·80	...	114 38 1·5	M
12	7·4	7 40·80	...	38 0·2	M
15	7·2	7 40·77	...	38 0·5	M
18	7·8	7 40·71	...	38 1·2	M
634		*Lalande* 43402.			
Oct. 2	9·3	22 8 52·08	5	99 1 38·4	R
21	9·3	8 52·10	6	1 39·4	M
635		43 *Aquarii* θ			
Oct. 11	...	22 10 7·80	5	98 24 52·1	M
15	...	10 7·81	6	24 53·1	M
16	...	10 7·77	6	24 53·0	M
636		*O. A. S.* 22070.			
Sep. 19	8·1	22 12 23·66	...	114 26 18·2	M
23	8·0	12 23·53	...	26 18·0	M
26	8·1	12 23·75	...	26 18·2	M
637		*Anon.*			
Oct. 6	9·3	22 13 44·86	5	146 25 54·5	M
638		*Anon.*			
Oct. 25	9·5	22 19 56·35	6	88 40 32·4	M
27	9·5	19 56·41	6	40 31·4	M
639		*R. P. L.* 150—*s.p.*			
Mar. 14	...	23 23 4·97	3	4 32 0·4	M
640		*R. P. L.* 151.			
Oct. 4	...	22 23 33·04	3	4 25 3·8	R
21	...	23 33·02	2	25 4·4	M
Nov. 5	...	23 33·88	2	25 3·4	M
641		*R. P. L.* 151—*s.p.*			
Mar. 21	...	22 23 32·92	3	4 25 4·9	M
27	...	23 32·37	3	25 6·1	M
Apl. 17	...	23 32·57	3	25 6·6	R
22	...	23 31·89	3	21 7·2	R
641		*O. A. S.* 22193.			
Sep. 11	7·4	22 23 49·93	...	116 43 18·2	M
12	7·6	23 49·84	...	43 17·1	M
15	7·5	23 49·86	...	43 16·6	M
642		*Taylor* 10435.			
Sep. 4	7·6	22 24 26·59	...	32 14 44·6	M
18	7·7	24 26·59	...	14 46·0	M
19	7·6	24 26·61	...	14 45·6	M
643		*Anon.*			
Sep. 26	9·3	22 24 50·33	...	135 39 26·2	M
644		62 *Aquarii* η			
Oct. 22	...	22 28 49·79	6	90 46 17·7	M
Nov. 6	...	28 49·66	6	46 16·1	M
7	...	28 49·85	6	46 16·8	M
645		*Anon.*			
Nov. 8	9·1	22 34 49·37	6	155 28 31·5	M
646		42 *Pegasi* ζ			
Sep. 9	...	22 35 7·52	...	79 49 51·4	M
15	...	35 7·69	...	49 51·9	M
20	...	35 7·77	...	49 51·1	M
22	...	35 7·75	...	49 52·8	M
Oct. 4	...	35 7·95	...	49 52·4	R
16	...	35 7·59	6	49 51·0	M
25	...	35 7·58	6	49 51·4	M
27	...	35 7·61	6	49 51·1	M
28	...	35 7·56	6	49 51·7	M
30	...	35 7·62	6	49 51·9	M
Nov. 1	...	35 7·61	6	49 51·9	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
647		*74 Aquarii.*			
Sep. 4	6·0	22 46 47·29	...	102 17 28·8	M
648		*O. A. S.* 22487.			
Sep. 9	8·7	22 48 17·52	...	114 38 40·5	M
15	8·7	48 17·41	...	38 40·6	M
19	8·6	48 17·59	6	38 42·6	M
20	8·7	48 17·51	...	38 40·2	M
649		*O. A. S.* 22497.			
Sep. 18	8·3	22 49 22·02	...	114 49 39·5	M
22	8·3	49 21·88	...	49 39·5	M
25	8·1	49 22·10	...	49 40·8	M
650		*S Aquarii, Var.* 2.			
Sep. 26	8·0	22 50 17·88	5	111 1 14·5	M
27	7·9	50 17·88	...	1 15·4	M
29	...	50 18·00	...	1 15·3	M
Oct. 6	7·9	50 17·94	...	1 13·8	M
7	7·9	50 17·76	5	1 14·0	M
651		*24 Piscis Australis α, Fomalhaut.*			
Oct. 16	...	22 50 37·67	3	120 17 41·8	M
27	...	50 37·62	6	17 40·1	M
28	...	50 37·79	6	17 41·8	M
29	...	50 37·79	6	17 40·8	M
31	...	50 37·67	6	17 41·0	M
Nov. 1	...	50 37·71	6	17 41·5	M
652		*4 Piscium β*			
Sep. 23	...	22 57 24·70	4	86 51 47·4	M
Oct. 10	...	57 24·56	6	51 47·4	M
11	...	57 24·77	6	51 46·4	M
653		*53 Pegasi β, Var.* 1.			
Oct. 18	...	22 57 36·93	6	62 36 21·0	M
27	...	57 37·08	6	36 20·2	M

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
654		*Anon.*			
Oct. 31	9·0	22 57 44·53	6	149 35 5·3	M
655		*54 Pegasi a*			
Oct. 22	...	22 58 26·01	6	75 28 39·8	M
25	...	58 26·08	6	28 39·6	M
28	...	58 26·04	6	28 40·1	M
29	...	58 26·07	6	28 39·9	M
30	...	58 26·02	6	28 40·6	M
Nov. 1	...	58 26·06	6	28 39·8	M
6	...	58 26·09	6	28 39·4	M
7	...	58 26·11	6	28 38·9	M
656		*6 Piscium γ*			
Sep. 19	...	23 10 34·80	...	87 24 41·0	M
26	...	10 34·94	...	24 41·6	M
Oct. 16	...	10 34·91	6	24 41·9	M
25	...	10 34·93	6	24 40·4	M
Nov. 6	...	10 34·93	6	24 39·6	M
657		*Anon.*			
Sep. 20	8·9	23 11 49·00	...	136 51 25·7	M
25	8·9	11 49·01	...	51 25·4	M
658		*Anon.*			
Nov. 7	8·5	23 12 37·88	6	137 0 59·5	M
659		*Anon.*			
Sep. 9	9·4	23 12 42·48	...	127 21 54·9	M
660		*96 Aquarii.*			
Sep. 10	5·9	23 12 48·88	...	95 49 4·2	M
661		*Groombridge* 4040.			
Oct. 28	6·0	23 13 17·86	4	17 0 19·5	M
31	7·0	13 17·79	6	0 19·1	M
Nov. 1	7·0	13 17·70	5	0 18·7	M
10	...	13 17·91	3	0 18·9	M

Separate Results of Madras Meridian Circle Observations in 1873.

Number and Date.	Magnitude.	Mean Right Ascension 1873. h. m. s.	No. of Wires.	Mean Polar Distance 1873. ° ′ ″	Observer.
662		*Anon.*			
Nov. 11	...	23 20 11·80	4	109 17 25·0	R
663		8 *Piscium* κ			
Oct. 6	...	23 20 25·35	...	89 26 21·4	M
21	...	20 25·24	6	26 22·3	M
30	...	20 25·38	6	26 23·7	M
Nov. 5	...	20 25·30	6	26 21·0	M
8	...	20 25·30	6	26 22·7	M
664		10 *Piscium* θ			
Sep. 12	4·9	23 21 31·46	...	84 19 5·2	M
665		*Anon.*			
Sep. 29	8·0	23 26 14·01	...	108 45 8·0	M
Oct. 2	9·7	26 14·22	...	45 8·4	R
Nov. 6	8·1	26 13·97	6	45 7·0	M
7	8·0	26 14·06	6	45 6·5	M
666		*R. P. L.* 158—*s.p.*			
Apl. 4	...	23 27 50·17	2	3 23 31·3	R
26	...	27 50·91	7	23 35·6	R
667		*Anon.*			
Oct. 27	9·3	23 28 9·87	6	108 24 44·6	M
31	9·4	28 9·62	6	24 46·7	M
Nov. 5	9·3	28 9·85	6	24 44·3	M
8	9·3	28 9·93	6	24 47·1	M
668		17 *Piscium* ι			
Nov. 10	...	23 33 25·08	6	85 3 40·8	R
22	...	33 25·05	6	3 41·0	R
669		18 *Piscium* λ			
Sep. 20	...	23 35 33·89	6	88 55 8·2	M
25	...	35 33·98	...	55 8·7	M
670		*Anon.*			
Sep. 19	8·5	23 35 41·00	...	148 39 58·7	M
671		*R. Aquarii, Var.* 1.			
Oct. 2	9·3	23 37 14·95	...	105 59 17·9	R
4	9·2	37 14·98	5	59 18·1	R
21	9·3	37 14·88	6	59 16·7	M
Nov. 7	9·7	37 14·88	5	59 13·7	M
672		19 *Piscium.*			
Sep. 23	...	23 39 54·02	4	87 13 3·5	M
26	...	39 54·29	...	13 3·2	M
27	...	39 54·10	...	13 3·8	M
673		20 *Piscium.*			
Oct. 10	...	23 41 24·63	6	93 28 3·9	M
29	...	41 24·74	6	28 4·1	M
30	...	41 24·91	6	28 4·4	M
674		δ *Sculptoris.*			
Nov. 22	...	23 42 18·40	6	118 49 56·5	R
675		*Anon.*			
Oct. 3	9·0	23 42 32·93	...	150 47 0·3	R
676		*Anon.*			
Nov. 8	9·4	23 43 15·50	6	129 40 50·1	M
677		28 *Piscium* ω			
Oct. 29	...	23 52 47·29	6	83 50 23·3	M
31	...	52 47·44	6	50 23·0	M
Nov. 10	...	52 47·40	6	50 23·5	R
678		29 *Piscium.*			
Sep. 23	5·5	23 55 18·79	...	93 44 4·7	M
679		*Anon.*			
Nov. 8	9·4	23 56 54·80	6	126 40 10·6	M
680		*Taylor* 10997.			
Nov. 12	9·2	23 58 31·16	6	126 43 29·9	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1873

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
1	Taylor 11010	7·8	2	0	0	56·67	147	32	37·5	2	0·85
2	21 Androm. α (*Alpherat*)...	2·1	...	0	1	49·56	61	36	39·3	2	0·87
3	... ...	9·5	1	0	2	20·~~23~~ 12.	127	27	~~2·5~~ 1·7.	2	0·8~~5~~
4	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	41·82	75	31	23·9	2	0·87
5	O. A. N. 317	8·3	1	0	18	6·01	26	3	54·6	1	0·75
6	... ...	8·8	2	0	18	50·52	26	51	2·2	2	0·79
7	... ...	9·7	...	0	19	28·59	26	34	38·8	1	0·86
8	10 Ceti	6·7	...	0	20	6·65	90	45	12·1	1	0·75
9	12 Ceti	6·2	...	0	23	33·41	94	39	34·6	4	0·86
10	... ...	10·4	1	0	25	50·48	76	5	12·9	1	0·88
11	... ...	9·0	2	0	27	10·34	144	51	20·8	2	0·78
12	13 Ceti	5·3	...	0	28	42·60	94	17	34·0	1	0·82
13	16 Ceti β	2·1	...	0	37	12·79	108	41	3·4	6	0·86
47·03 14	2 Ursæ Minoris	4·5	...	0	51	~~46·87~~ 7·03	4	25	34·6	4	0·47
15	71 Piscium ε	4·5	...	0	56	21·18	82	47	39·4	6	0·89
16	O. A. N. 1303	7·5	2	1	9	28·23	18	16	7·8	2	0·83
17	... ...	8·0	1	1	10	40·01	153	49	15·0	1	0·85
18	R. P. L. 18	7·9	...	1	11	10·94	2	5	58·6	2	0·86
19	... ...	9·3	1	1	12	11·20	152	19	42·0	1	0·96
20	... ...	7·9	5	1	16	38·34	79	49	4·3	5	0·82
21	44 Ceti	7·0	...	1	17	39·33	98	40	7·8	3	0·86
22	45 Ceti θ^1	3·8	...	1	17	40·50	98	50	23·6	4	0·90
23	Stone 553	8·0	2	1	19	13·39	151	17	32·1	2	0·94
24	Lalande 2625	9·2	3	1	20	19·11	79	17	33·8	3	0·95
25	α Eridani (*Achernar*) ...	1·0	...	1	32	58·97	147	52	58·8	1	0·93
26	106 Piscium ν	4·7	...	1	34	49·28	85	9	22·8	1	0·91
27	6 Arietis β	2·8	...	1	47	37·58	69	48	49·7	3	0·95
28	... ...	9·0	1	1	56	29·74	129	55	55·1	1	0·85
29	... ...	9·3	1	1	56	29·81	129	24	36·2	1	0·85
30	13 Arietis α	2·0	...	2	0	1·00	67	8	21·7	2	0·95
31	... ...	9·3	1	2	1	20·55	149	46	27·7	1	0·93
32	... ...	10·0	1	2	6	22·14	151	21	32·3	1	0·94
33	Bonn +2°.351	10·0	1	2	7	18·35	87	4	20·2	1	0·93
34	R Arietis, Var. 1	8·1	8	2	8	53·67	65	32	6·9	8	0·84
35	67 Ceti	5·5	...	2	10	38·97	97	0	30·9	4	0·93

6—7.—Observed for map of Gemma's Nova of 1572.
10.—Observed for map of T Piscium, Var. 3.
16.—Observed for map of S Cassiopeæ, Var. 2.
20—24.—Comparison stars for Asia in 1873.
33.—Comparison star for Camilla in 1868.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
1	Taylor 11010 ...	+ 3·0636	− 0·0452	...	− 20·054	+ 0·010	...	...
2	21 Andromedæ α ...	+ 3·0779	+ 0·0182	+ 0·010	− 20·054	+ 0·013	+ 0·16	3215
3	... ...	+ 3·0620	− 0·0207	...	− 20·054	+ 0·013	...	...
4	88 Pegasi γ	+ 3·0822	+ 0·0100	− 0·001	− 20·046	+ 0·022	+ 0·01	1
5	O. A. N. 317... ...	+ 3·2879	+ 0·0723	...	− 19·992	+ 0·047	...	...
6	... ...	+ 3·2891	+ 0·0697	...	− 19·987	+ 0·048	...	...
7	... ...	+ 3·2992	+ 0·0710	...	− 19·981	+ 0·049	...	...
8	10 Ceti	+ 3·0707	+ 0·0026	+ 0·004	− 19·977	+ 0·047	− 0·01	29
9	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·949	+ 0·055	+ 0·01	38
10	... ...	+ 3·1095	+ 0·0108	...	− 19·927	+ 0·059	...	...
11	... ...	+ 2·8476	− 0·0325	...	− 19·914	+ 0·058	...	...
12	13 Ceti	+ 3·0597	+ 0·0014	+ 0·027	− 19·897	+ 0·064	+ 0·02	50
13	16 Ceti β	+ 2·9991	− 0·0055	+ 0·015	− 19·791	+ 0·080	− 0·03	70
14	2 Urs. Min.	+ 6·9406	+ 1·3261	+ 0·065	− 19·545	+ 0·235	+ 0·01	Main
15	71 Piscium ε... ...	+ 3·1133	+ 0·0087	− 0·007	− 19·451	+ 0·119	− 0·04	113
16	O. A. N. 1303 ...	+ 4·2808	+ 0·1510	...	− 19·140	+ 0·194	...	...
17	... ...	+ 2·2471	− 0·0209	...	− 19·108	+ 0·107	...	...
18	R. P. L. 18	+ 14·2167	+ 6·4056	...	− 19·095	+ 0·642	...	...
19	... ...	+ 2·2824	− 0·0202	...	− 19·068	+ 0·111	...	...
20	... ...	+ 3·1508	+ 0·0113	...	− 18·944	+ 0·159	...	...
21	44 Ceti	+ 3·0044	+ 0·0019	+ 0·008	− 18·914	+ 0·154	+ 0·06	183
22	45 Ceti θ^1	+ 3·0031	+ 0·0018	− 0·007	− 18·914	+ 0·154	+ 0·20	184
23	Stone 553	+ 2·2452	− 0·0173	...	− 18·868	+ 0·119	...	...
24	Lalande 2625 ...	+ 3·1590	+ 0·0117	...	− 18·836	+ 0·166	...	...
25	α Eridani	+ 2·2316	− 0·0128	+ 0·008	− 18·427	+ 0·137	+ 0·07	Stone
26	106 Piscium ν ...	+ 3·1177	+ 0·0091	− 0·003	− 18·363	+ 0·191	− 0·01	228
27	6 Arietis β	+ 3·2946	+ 0·0183	+ 0·005	− 17·884	+ 0·226	+ 0·10	252
28	... ...	+ 2·5275	− 0·0065	...	− 17·520	+ 0·187	...	...
29	... ...	+ 2·5375	− 0·0064	...	− 17·519	+ 0·188	...	...
30	13 Arietis α	+ 3·3541	+ 0·0203	+ 0·013	− 17·367	+ 0·252	+ 0·13	287
31	... ...	+ 1·9134	− 0·0028	...	− 17·309	+ 0·148	...	...
32	... ...	+ 1·7897	+ 0·0006	...	− 17·083	+ 0·144	...	...
33	Bonn +2°.351 ...	+ 3·1081	+ 0·0090	...	− 17·040	+ 0·246	...	...
34	R Arietis, Var. 1 ...	+ 3·3964	+ 0·0216	...	− 16·966	+ 0·270	...	...
35	67 Ceti	+ 2·9835	+ 0·0049	+ 0·004	− 16·883	+ 0·242	+ 0·11	321

14.—Proper motions from Main's list.
25.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	22 Arietis θ	5·6	...	2	11	3·73	70	41	15·5	1	0·82
37	73 Ceti ξ^3	4·4	...	2	21	24·52	82	6	37·4	6	0·94
38	R. P. L. 26	8·0	...	2	24	49·37	3	30	28·9	2	0·94
39	86 Ceti γ	3·6	...	2	36	43·22	87	18	1·7	6	0·94
40	Lalande 5483	8·1	2	2	51	33·09	80	18	21·8	2	0·02
41	Lalande 5558	8·4	3	2	53	57·95	80	15	41·7	3	0·03
42	92 Ceti α	2·7	...	2	55	38·51	86	24	35·9	9	0·74
43	25 Persei ρ, Var. 2 ...	4·4	2	2	57	2·81	51	39	13·5	2	0·05
44	Cor. Z. II. 1603	9·0	1	2	59	11·70	130	36	14·1	1	0·05
45	26 Persei β, Var. 1 ...	Var.	...	2	59	54·81	49	32	7·5	3	0·06
46	Taylor 1047	6·0	2	3	0	3·78	151	17	44·3	2	0·45
47	Taylor 1052	5·9	1	3	0	37·57	150	13	53·3	1	0·83
48	Taylor 1057	7·8	1	3	0	58·46	151	20	13·0	1	0·05
49	... ...	10·0	2	3	2	30·22	130	36	50·6	2	0·90
50	57 Arietis δ	4·5	...	3	4	22·15	70	45	19·8	1	0·00
51	Taylor 1081	7·4	1	3	5	24·53	151	38	11·6	1	0·02
52	... ...	8·9	3	3	6	29·68	128	29	59·0	3	0·03
53	... ...	9·4	2	3	7	31·06	145	38	30·1	2	0·05
54	58 Arietis ζ	4·9	...	3	7	36·34	69	25	41·0	2	0·04
55	Taylor 1112	7·9	1	3	10	37·50	129	28	19·9	1	0·05
56	... ...	9·4	2	3	12	43·16	130	8	32·8	2	0·06
57	... ...	8·0	1	3	12	43·38	130	56	8·1	1	0·07
58	... ...	8·6	1	3	12	54·56	129	25	41·8	1	0·07
59	... ...	10·2	3	3	13	9·33	131	44	49·4	3	0·94
60	... ...	8·3	1	3	13	41·40	125	37	52·4	1	0·84
61	61 Arietis τ^1	5·2	...	3	13	53·78	69	18	44·6	2	0·42
62	... ...	9·3	1	3	15	3·10	150	4	20·9	1	0·04
63	... ...	8·3	1	3	15	16·84	151	30	15·0	1	0·04
64	ζ^2 Reticuli	6·5	1	3	15	27·81	152	59	34·3	1	0·92
65	... ...	9·7	1	3	15	44·06	125	39	26·9	1	0·86
66	... ...	8·8	2	3	20	30·66	149	17	1·6	2	0·02
67	... ...	10·0	1	3	21	13·72	54	45	52·8	1	0·88
68	... ...	9·5	1	3	23	35·02	130	8	24·0	1	0·07
69	... ...	8·8	1	3	23	59·79	126	28/19	45·8	1	0·06
70	R. P. L. 34	5·8	...	3	25	7·01/5·38	3	45	33·6	1	0·37

40—41.—Comparison stars for Isis in 1872.
67.—Observed for map of R. Persei, Var. 3.
70.—Groombridge 642.

[20]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	22 Arietis θ	+ 3·3258	+ 0·0179	− 0·002	− 16·864	+ 0·269	− 0·01	320
37	73 Ceti ξ^2	+ 3·1794	+ 0·0117	+ 0·001	− 16·358	+ 0·276	+ 0·00	347
38	R. P. L. 26	+ 15·9540	+ 3·6852	...	− 16·181	+ 1·382	...	...
39	86 Ceti γ	+ 3·1120	+ 0·0094	− 0·011	− 15·546	+ 0·294	+ 0·16	383
40	Lalande 5483 ...	+ 3·2276	+ 0·0124	...	− 14·694	+ 0·327	...	...
41	Lalande 5558 ...	+ 3·2301	+ 0·0124	...	− 14·550	+ 0·330	...	...
42	92 Ceti α	+ 3·1303	+ 0·0098	− 0·003	− 14·447	+ 0·323	+ 0·07	428
43	25 Persei ρ, Var. 2 ...	+ 3·8103	+ 0·0332	+ 0·010	− 14·363	+ 0·393	+ 0·09	429
44	Cor. Z. II. 1603 ...	+ 2·2646	+ 0·0003	...	− 14·230	+ 0·239	...	...
45	26 Persei β, Var. 1 ...	+ 3·8783	+ 0·0356	− 0·002	− 14·186	+ 0·405	− 0·01	436
46	Taylor 1047	+ 1·3454	+ 0·0139	...	− 14·176	+ 0·145	...	...
47	Taylor 1052	+ 1·4149	+ 0·0120	...	− 14·141	+ 0·152	...	...
48	Taylor 1057	+ 1·3354	+ 0·0142	...	− 14·121	+ 0·144	...	...
49	... ...	+ 2·2527	+ 0·0004	...	− 14·025	+ 0·241	...	...
50	57 Arietis δ	+ 3·4085	+ 0·0171	+ 0·010	− 13·907	+ 0·364	− 0·01	446
51	Taylor 1081	+ 1·2803	+ 0·0156	...	− 13·842	+ 0·141	...	...
52	... ...	+ 2·2991	+ 0·0006	...	− 13·776	+ 0·250	...	...
53	... ...	+ 1·6448	+ 0·0069	...	− 13·708	+ 0·181	...	...
54	58 Arietis ζ	+ 3·4386	+ 0·0176	− 0·003	− 13·702	+ 0·373	+ 0·07	451
55	Taylor 1112	+ 2·2584	+ 0·0009	...	− 13·509	+ 0·249	...	...
56	... ...	+ 2·2318	+ 0·0012	...	− 13·372	+ 0·249	...	...
57	... ...	+ 2·2081	+ 0·0011	...	− 13·372	+ 0·246	...	...
58	... ...	+ 2·2523	+ 0·0011	...	− 13·360	+ 0·251	...	...
59	... ...	+ 2·1815	+ 0·0013	...	− 13·341	+ 0·243	...	...
60	... ...	+ 2·3553	+ 0·0011	...	− 13·309	+ 0·263	...	...
61	Arietis τ^1	+ 3·4503	+ 0·0175	+ 0·001	− 13·295	+ 0·382	+ 0·03	465
62	... ...	+ 1·3257	+ 0·0138	...	− 13·219	+ 0·151	...	...
63	... ...	+ 1·2185	+ 0·0166	...	− 13·204	+ 0·140	...	...
64	ζ^2 Reticuli	+ 1·0966	+ 0·0203	+ 0·190	− 13·194	+ 0·126	+ 0·65	Stone
65	... ...	+ 2·3490	+ 0·0012	...	− 13·174	+ 0·264	...	...
66	... ...	+ 1·3454	+ 0·0131	...	− 12·856	+ 0·156	...	...
67	... ...	+ 3·3789	+ 0·0279	...	− 12·809	+ 0·431	...	...
68	... ...	+ 2·1974	+ 0·0018	...	− 12·649	+ 0·254	...	...
69	... ...	+ 2·3076	+ 0·0016	...	− 12·621	+ 0·266	...	...
70	R. P. L. 34	+ 18·9438	+ 3·2244	+ 0·136	− 12·544	+ 2·160	+ 0·06	Gr.

64.—Proper motions from "*Stone's Cape Catalogue.*"
70.—Proper motions from "*Greenwich Catalogue of* 1872."

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	... ...	8·3	1	3	25	9·86	128	59	49·5	1	0·04
72	... ...	10·3	1	3	33	57·44	128	28	23·4	1	0·97
73	Lacaille 1193	8·1	2	3	35	28·61	146	33	27·8	2	0·02
74	... ...	8·7	1	3	35	30·55	150	11	30·5	1	0·02
75	Taylor 1256	7·9	3	3	35	38·09	150	11	30·8	3	0·03
76	... ...	9·7	3	3	36	0·47	152	24	38·9	3	0·64
77	... ...	10·3	1	3	36	6·68	129	8	47·3	1	0·93
78	Lacaille 1200	6·8	1	3	36	37·35	146	38	44·8	1	0·06
79	... ...	8·7	1	3	37	10·96	148	25	43·8	2	0·50
80	17 Tauri (*Electra*) ...	3·8	...	3	37	20·29	66	17	16·5	1	0·01
81	... ...	8·0	1	3	39	52·22	66	28	48·6	1	0·05
82	25 Tauri η (*Alcyone*) ...	3·0	...	3	39	56·16	66	17	23·2	6	0·66
83	30 Tauri e	5·1	...	3	41	18·50	79	14	58·7	1	0·02
84	34 Eridani γ^1	3·0	...	3	52	6·28	103	52	17·5	7	0·57
85	R. P. L. 35	6·7	...	3	57	25·61	4	47	1·8	3	0·03
86	37 Eridani	5·8	...	4	4	11·07	97	15	27·5	1	0·04
87	38 Eridani o^1	4·1	...	4	5	40·01	97	10	13·8	6	0·36
88	U Tauri, Var. 7	9·8	4	4	14	25·12	70	29	20·3	4	0·07
89	74 Tauri ϵ	3·7	...	4	21	12·16	71	6	13·0	5	0·25
90	R Tauri, Var. 2	8·2	3	4	21	20·35	80	7	22·7	3	0·01
91	... ...	10·3	1	4	22	31·94	80	26	49·4	1	0·94
92	... ...	10·2	1	4	22	51·65	80	20	1·6	1	0·95
93	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	38·05	73	44	54·1	5	0·25
94	Lacaille 1551—2nd ...	10·0	1	4	32	19·77	153	5	16·6	1	0·10
95	... ...	9·2	3	4	34	9·99	130	50	37·2	3	0·33
96	... ...	9·6	2	4	34	30·16	130	50	30·2	2	0·48
97	... ...	9·4	2	4	34	41·78	144	54	46·3	2	0·03
98	... ...	10·0	1	4	34	43·19	153	25	43·8	1	0·93
99	95 Tauri	7·0	1	4	35	32·72	66	9	15·9	1	0·04
100	3 Aurigæ ι	2·7	...	4	48	43·58	57	2	15·3	5	0·06
101	... ...	10·4	1	4	51	56·05	82	7	41·0	1	0·94
102	R Orionis, Var. 3	9·4	2	4	52	7·32	82	3	56·3	2	0·02
103	7 Aurigæ ϵ, Var. 1. ...	Var.	...	4	52	51·58	46	22	3·2	4	0·03
104	11 Orionis	4·7	1	4	57	18·77	74	46	30·5	1	0·04
105	104 Tauri m	5·1	...	4	59	56·66	71	31	40·1	1	0·04

91.—Observed for map of R Tauri, Var. 2.
94—98.—Observed for map of R Reticuli, Var. 1.
101.—Observed for map of R Orionis, Var. 3.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	... ...	+ 2·2273	+ 0·0018	...	− 12·541	+ 0·258	...	...
72	... ...	+ 2·2183	+ 0·0022	...	− 11·932	+ 0·265	...	...
73	Lacaille 1193 ...	+ 1·4373	+ 0·0105	...	− 11·825	+ 0·174	...	...
74	... ...	+ 1·1872	+ 0·0159	...	− 11·823	+ 0·145	...	...
75	Taylor 1256	+ 1·1865	+ 0·0159	...	− 11·814	+ 0·145	...	...
76	... ...	+ 1·0023	+ 0·0207	...	− 11·787	+ 0·123	...	...
77	... ...	+ 2·1914	+ 0·0024	...	− 11·780	+ 0·264	...	...
78	Lacaille 1200 ...	+ 1·4257	+ 0·0107	...	− 11·743	+ 0·173	...	...
79	... ...	+ 1·3056	+ 0·0131	...	− 11·704	+ 0·160	...	...
80	17 Tauri	+ 3·5494	+ 0·0180	− 0·000	− 11·693	+ 0·424	+ 0·04	509
81	... ...	+ 3·5487	+ 0·0176	...	− 11·512	+ 0·428	...	...
82	25 Tauri η	+ 3·5531	+ 0·0177	− 0·000	− 11·508	+ 0·430	+ 0·04	521
83	30 Tauri ϵ	+ 3·2809	+ 0·0115	− 0·001	− 11·409	+ 0·398	+ 0·02	529
84	34 Eridani γ^1 ...	+ 2·7921	+ 0·0077	+ 0·003	− 10·620	+ 0·351	+ 0·11	546
85	R. P. L. 35	+ 16·8164	+ 1·8114	+ 0·057	− 10·222	+ 2·114	− 0·05	Gr.
86	37 Eridani	+ 2·9233	+ 0·0058	− 0·002	− 9·709	+ 0·377	+ 0·02	567
87	38 Eridani o^1 ...	+ 2·9245	+ 0·0058	− 0·001	− 9·595	+ 0·379	− 0·09	568
88	U Tauri, Var. 7 ...	+ 3·4967	+ 0·0129	...	− 8·916	+ 0·460	...	...
89	74 Tauri ϵ	+ 3·4880	+ 0·0120	+ 0·007	− 8·380	+ 0·466	+ 0·03	609
90	R Tauri, Var. 2 ...	+ 3·2838	+ 0·0092	...	− 8·369	+ 0·439	...	...
91	... ...	+ 3·2771	+ 0·0090	...	− 8·275	+ 0·439	...	...
92	... ...	+ 3·2798	+ 0·0090	...	− 8·248	+ 0·440	...	...
93	87 Tauri α	+ 3·4313	+ 0·0105	+ 0·004	− 7·785	+ 0·464	+ 0·18	630
94	Lacaille 1551—2nd ...	+ 0·6286	+ 0·0205	...	− 7·487	+ 0·088	...	...
95	... ...	+ 1·9964	+ 0·0040	...	− 7·308	+ 0·274	...	...
96	... ...	+ 1·9958	+ 0·0040	...	− 7·298	+ 0·274	...	...
97	... ...	+ 1·2994	+ 0·0095	...	− 7·293	+ 0·180	...	...
98	... ...	+ 0·5815	+ 0·0209		− 7·292	+ 0·082		
99	95 Tauri	+ 3·6235	+ 0·0125	− 0·000	− 7·224	+ 0·495	+ 0·01	652
100	3 Aurigæ ι	+ 3·8975	+ 0·0144	+ 0·001	− 6·137	+ 0·544	+ 0·00	677
101	... ...	+ 3·2489	+ 0·0068	...	− 5·870	+ 0·456	...	...
102	R Orionis, Var. 3 ...	+ 3·2504	+ 0·0068	...	− 5·853	+ 0·456	...	...
103	7 Aurigæ ϵ, Var. 1 ...	+ 4·2926	+ 0·0199	− 0·002	− 5·792	+ 0·602	+ 0·01	690
104	11 Orionis	+ 3·4226	+ 0·0079	− 0·000	− 5·417	+ 0·482	+ 0·03	702
105	104 Tauri m	+ 3·5035	+ 0·0083	+ 0·038	− 5·195	+ 0·495	− 0·02	705

85.—Proper motions from "*Greenwich Catalogue* 1872."

Mean Positions of Stars for 1873, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	2 Leporis ϵ	3·3	...	5	0	5·08	112	32	35·7	1	0·06
107	103 Tauri	5·5	...	5	0	22·42	65	54	18·8	1	0·04
108	... ...	9·5	2	5	4	49·94	135	33	57·0	2	0·06
109	... ...	9·0	1	5	6	58·38	36	33	58·8	1	0·07
110	R. Aurigæ, Var. 2 ...	8·8	6	5	7	2·91	36	33	35·3	6	0·08
111	19 Orionis β (*Rigel*) ...	0·3	...	5	8	26·04	98	21	1·2	5	0·04
112	... ...	9·0	1	5	13	20·94	75	4	22·2	1	0·04
113	Bonn +14°. 889	9·5	1	5	14	55·08	75	5	53·7	1	0·04
114	112 Tauri β	1·9	...	5	18	15·94	61	30	9·5	3	0·07
115	... ...	9·2	1	5	18	38·90	121	28	26·0	1	0·03
116	Taylor 1984	7·2	1	5	18	57·75	150	54	18·5	1	0·04
117	Stone 2889	9·0	2	5	19	13·45	148	13	47·1	2	0·05
118	114 Tauri o	4·8	...	5	20	0·47	68	10	27·0	2	0·09
119	... ...	9·4	3	5	20	2·74	131	3	23·2	3	0·09
120	R. P. L. 40	6·4	...	5	21	32·24	4	52	34·3	2	0·51
121	34 Orionis δ, Var. 1 ...	2·4	...	5	25	31·19	90	23	42·6	2	0·08
122	... ...	8·9	1	5	25	36·69	155	50	53·2	1	0·05
123	... ...	9·1	2	5	26	25·94	121	23	58·1	2	0·10
124	11 Leporis α	2·7	...	5	27	7·79	107	54	54·8	3	0·05
125	46 Orionis ϵ	1·8	...	5	29	46·17	91	17	7·1	11	0·08
126	123 Tauri ξ	3·0	...	5	30	3·32	68	56	15·8	1	0·04
127	α Columbæ	2·7	...	5	35	3·06	124	8	35·7	8	0·06
128	... ...	9·2	5	5	40	1·03	120	59	42·8	5	0·05
129	... ...	9·0	2	5	40	8·85	135	47	53·1	2	0·03
130	... ...	9·0	2	5	40	51·04	120	57	43·7	2	0·06
131	... ...	10·2	1	5	42	17·22	136	4	5·3	1	0·12
132	... ...	9·3	1	5	44	14·08	152	57	51·7	1	0·01
133	54 Orionis χ^1	4·6	...	5	46	51·93	69	45	0·4	2	0·01
134	58 Orionis α, Var. 2 ...	Var.	...	5	48	17·77	82	37	6·9	4	0·09
135	... ...	8·7	2	5	50	9·14	135	43	0·9	2	0·09
136	... ...	9·5	2	5	51	14·28	130	42	53·8	2	0·13
137	... ...	8·8	2	5	53	19·14	130	24	51·4	2	0·05
138	... ...	7·9	1	5	53	39·62	141	40	4·9	1	0·03
139	... ...	9·2	2	5	53	58·82	121	32	32·5	2	0·10
140	... ...	9·7	1	5	54	49·24	137	45	10·8	1	0·11

109.—Observed for map of R Aurigæ, Var. 2.
112.—Comparison star for Asia in 1866.
120.—Groombridge 944.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
106	2 Leporis ϵ	+ 2·5360	+ 0·0033	+ 0·000	− 5·183	+ 0·359	+ 0·07	713
107	103 Tauri	+ 3·6501	+ 0·0097	− 0·001	− 5·160	+ 0·516	0·00	706
108	... ...	+ 1·7480	+ 0·0045	...	− 4·781	+ 0·250	...	...
109	... ...	+ 4·8265	+ 0·0239	...	− 4·600	+ 0·687	...	...
110	R Aurigæ, Var. 2 ...	+ 4·8270	+ 0·0239	...	− 4·592	+ 0·687	...	...
111	19 Orionis β (*Rigel*) ..	+ 2·8808	+ 0·0040	− 0·001	− 4·474	+ 0·412	− 0·01	736
112	... ...	+ 3·4212	+ 0·0063	...	− 4·054	+ 0·491	...	...
113	Bonn +14°.889 ...	+ 3·4211	+ 0·0062	...	− 3·920	+ 0·491	...	...
114	112 Tauri β	+ 3·7860	+ 0·0082	+ 0·001	− 3·632	+ 0·545	+ 0·18	756
115	... ...	+ 2·2670	+ 0·0030	...	− 3·599	+ 0·327	...	...
116	Taylor 1984	+ 0·7081	+ 0·0104	...	− 3·572	+ 0·103	...	...
117	Stone 2839	+ 0·9475	+ 0·0084	...	− 3·549	+ 0·138	...	...
118	114 Tauri o	+ 3·5995	+ 0·0068	− 0·001	− 3·481	+ 0·519	− 0·01	768
119	... ...	+ 1·9255	+ 0·0035	...	− 3·478	+ 0·279	...	...
120	R. P. L. 40	+18·5233	+ 0·6435	...	− 3·350	+ 2·665	...	...
121	34 Orionis δ, Var. 1 ...	+ 3·0630	+ 0·0038	− 0·001	− 3·006	+ 0·443	+ 0·01	787
122	... ...	+ 0·1242	+ 0·0143	...	− 2·997	+ 0·019	...	...
123	... ...	+ 2·2648	+ 0·0028	...	− 2·927	+ 0·328	...	...
124	11 Leporis α	+ 2·6443	+ 0·0029	− 0·001	− 2·867	+ 0·383	− 0·01	796
125	46 Orionis ϵ	+ 3·0424	+ 0·0036	− 0·002	− 2·638	+ 0·441	− 0·01	809
126	123 Tauri ζ	+ 3·5828	+ 0·0055	− 0·001	− 2·613	+ 0·519	+ 0·02	800
127	α Columbæ	+ 2·1708	+ 0·0027	+ 0·005	− 2·179	+ 0·316	+ 0·03	Stone
128	... ...	+ 2·2721	+ 0·0025	...	− 1·747	+ 0·331	...	...
129	... ...	+ 1·7027	+ 0·0033	...	− 1·735	+ 0·248	...	...
130	... ...	+ 2·2729	+ 0·0026	...	− 1·674	+ 0·331	...	...
131	... ...	+ 1·6886	+ 0·0033	...	− 1·549	+ 0·247	...	...
132	... ...	+ 0·4584	+ 0·0067	...	− 1·379	+ 0·068	...	...
133	54 Orionis χ^1 ...	+ 3·5647	+ 0·0034	− 0·015	− 1·149	+ 0·520	+ 0·10	856
134	58 Orionis α, Var. 2...	+ 3·2451	+ 0·0027	+ 0·001	− 1·023	+ 0·473	− 0·02	860
135	... ...	+ 1·7027	+ 0·0030	...	− 0·861	+ 0·248	...	...
136	... ...	+ 1·9225	+ 0·0027	...	− 0·767	+ 0·280	...	...
137	... ...	+ 1·9343	+ 0·0026	...	− 0·585	+ 0·282	...	...
138	... ...	+ 1·3319	+ 0·0031	...	− 0·555	+ 0·201	...	...
139	... ...	+ 2·2518	+ 0·0024	...	− 0·526	+ 0·328	...	...
140	... ...	+ 1·6006	+ 0·0028	...	− 0·454	+ 0·233	...	...

127.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
141	64 Orionis χ^3	5·1	...	5	55	56·20	70	18	35·4	2	0·04
142	62 Orionis χ_1^4	4·8	...	5	56	22·58	69	51	40·3	2	0·15
143	1 Geminorum	4·3	...	5	56	23·93	66	43	57·2	4	0·15
144	67 Orionis ν	4·4	...	6	0	19·25	75	13	7·2	6	0·05
145	7 Geminorum η	3·5	...	6	7	12·75	67	27	33·0	5	0·03
146	... ...	9·0	1	6	7	55·32	137	6	29·4	1	0·11
147	Stone 2863	9·5	1	6	8	37·10	155	3	38·9	1	0·12
148	... ...	9·6	3	6	10	9·93	153	14	32·3	3	0·12
149	... ...	9·9	1	6	11	48·28	152	1	56·1	1	0·17
150	... ...	8·7	1	6	12	3·73	121	31	40·6	1	0·06
151	... ...	9·3	2	6	12	16·78	136	50	59·5	2	0·12
152	Lalande 12053	8·6	1	6	12	56·25	68	51	27·5	1	0·07
153	Lalande 12094	8·6	1	6	14	7·32	68	42	11·7	1	0·08
154	13 Geminorum μ	3·2	...	6	15	16·59	67	25	26·7	10	0·08
155	Lalande 12386	7·3	5	6	21	57·13	78	54	6·7	5	0·04
156	Lalande 12419	8·1	5	6	22	39·77	79	15	16·4	5	0·10
157	24 Geminorum γ	2·0	...	6	30	22·48	73	29	41·9	23	0·11
158	31 Geminorum ξ	3·4	...	6	38	9·64	76	58	11·6	1	0·03
159	9 Canis Majoris α (*Sirius*).	− 1·4	...	6	39	32·99	106	32	39·7	1	0·96
160	51 Cephei (*Hev.*)	5·3	...	6	40	15·39 14·92	2	45	47·4	7	0·21
161	21 Canis Majoris ϵ ...	1·5	...	6	53	38·13	118	48	2·7	18	0·10
162	43 Geminorum ζ^2, Var. 1 ..	Var.	...	6	56	34·65	69	14	46·0	1	0·07
163	23 Canis Majoris γ ...	4·1	...	6	58	0·78	105	26	51·1	12	0·11
164	... ...	9·3	1	7	1	47·75	129	39	58·3	1	0·06
165	... ...	9·0	2	7	3	7·46	141	24	54·3	2	0·12
166	... ...	9·2	1	7	8	8·16	148	46	53·8	1	0·15
167	... ...	8·9	1	7	8	15·31	152	5	53·4	1	0·02
168	... ...	9·7	1	7	10	4·15	130	19	31·1	1	0·15
169	... ...	9·5	2	7	10	34·14	131	53	7·0	2	0·08
170	55 Geminorum δ	3·7	...	7	12	32·17	67	47	11·3	6	0·07
171	60 Geminorum ι	4·0	...	7	17	50·18	61	57	7·9	4	0·12
172	Radcliffe 1959	7·5	1	7	19	17·50	41	49	23·8	1	0·14
173	6 Canis Minoris λ. ...	5·0	...	7	22	43·65	77	43	58·6	1	0·02
174	... ...	9·3	2	7	24	15·08	152	48	18·0	2	0·10
175	... ...	9·4	1	7	25	2·37	130	10	37·6	1	0·07

152—158.—Comparison stars for Ariadne in 1866.
155—156.—Comparison stars for Sappho in 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
141	64 Orionis χ^3 ...	+ 3·5505	+ 0·0022	+ 0·002	− 0·356	+ 0·518	+ 0·01	878
142	62 Orionis χ^4 ...	+ 3·5625	+ 0·0022	0·000	− 0·317	+ 0·519	− 0·01	881
143	1 Geminorum ...	+ 3·6470	+ 0·0021	− 0·001	− 0·315	+ 0·532	+ 0·09	880
144	67 Orionis ν ...	+ 3·4250	+ 0·0017	− 0·000	+ 0·028	+ 0·500	+ 0·01	887
145	7 Geminorum η ...	+ 3·6268	+ 0·0007	− 0·005	+ 0·631	+ 0·529	+ 0·00	909
146	... ...	+ 1·6340	+ 0·0022	...	+ 0·693	+ 0·238	...	...
147	Stone 2863	+ 0·1993	+ 0·0005	...	+ 0·753	+ 0·029	...	...
148	... ...	+ 0·4232	+ 0·0006	...	+ 0·889	+ 0·062	...	...
149	... ...	+ 0·5576	+ 0·0005	...	+ 1·032	+ 0·081	...	...
150	... ...	+ 2·2532	+ 0·0021	...	+ 1·056	+ 0·328	...	...
151	... ...	+ 1·6481	+ 0·0019	...	+ 1·074	+ 0·240	...	...
152	Lalande 12053 ...	+ 3·5883	+ 0·0002	...	+ 1·131	+ 0·523	...	...
153	Lalande 12094 ...	+ 3·5924	0·0000	...	+ 1·228	+ 0·522	...	...
154	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·330	+ 0·527	+ 0·10	929
155	Lalande 12386 ...	+ 3·3332	− 0·0001	...	+ 1·918	+ 0·483	...	...
156	Lalande 12419 ...	+ 3·3245	− 0·0001	...	+ 1·980	+ 0·481	...	...
157	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·650	+ 0·500	+ 0·04	969
158	3 Geminorum ξ ...	+ 3·3773	− 0·0017	− 0·009	+ 3·324	+ 0·485	+ 0·20	989
159	9 Canis Majoris α ...	+ 2·6809	− 0·0010	− 0·037	+ 3·443	+ 0·384	+ 1·20	994
160	51 Cephei (*Hev*) ...	+ 30·3475	− 2·0406	...	+ 3·505	+ 4·356	...	...
161	21 Canis Majoris ϵ ...	+ 2·3572	+ 0·0013	− 0·001	+ 4·650	+ 0·332	− 0·02	1023
162	43 Gemin. ζ^2, Var. 1..	+ 3·5636	− 0·0050	− 0·001	+ 4·900	+ 0·503	− 0·00	1024
163	23 Canis Majoris γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·022	+ 0·381	+ 0·00	1028
164	... ...	+ 2·0037	+ 0·0011	...	+ 5·342	+ 0·280	...	...
165	... ...	+ 1·4597	− 0·0013	...	+ 5·454	+ 0·203	...	...
166	... ...	+ 0·9629	− 0·0074	...	+ 5·874	+ 0·132	...	...
167	... ...	+ 0·6585	− 0·0102	...	+ 5·884	+ 0·089	...	...
168	... .	+ 1·9900	+ 0·0009	...	+ 6·036	+ 0·274	...	...
169	... ...	+ 1·9296	+ 0·0007	...	+ 6·077	+ 0·265	...	...
170	55 Geminorum δ ...	+ 3·5910	− 0·0072	− 0·003	+ 6·242	+ 0·495	− 0·00	1062
171	60 Geminorum ι ...	+ 3·7438	− 0·0101	− 0·010	+ 6·681	+ 0·512	+ 0·08	1072
172	Radcliffe 1859 ...	+ 4·4777	− 0·0245	...	+ 6·801	+ 0·611	...	...
173	6 Canis Minoris ...	+ 3·3441	− 0·0052	− 0·001	+ 7·083	+ 0·453	+ 0·00	1085
174	... ...	+ 0·6441	− 0·0135	...	+ 7·208	+ 0·085	...	...
175	... ...	+ 2·0201	+ 0·0009	...	+ 7·272	+ 0·272	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Stars.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
176	... ...	8·8	1	7	26	18·40	142	7	1·2	1	0·04
177	66 Geminor. α^2 (*Castor*)...	1·6	...	7	26	29·76	57	50	8·0	6	0·31
178	... ...	9·5	2	7	26	55·76	129	46	9·3	2	0·06
179	... ...	9·3	2	7	27	19·09	153	11	51·6	2	0·13
180	74 Geminorum *f*	5·2	...	7	32	8·40	72	2	18·6	1	0·06
181	10 Can. Min. α (*Procyon*)...	0·5	...	7	32	39·10	84	27	4·9	8	0·11
182	... ...	9·8	2	7	33	11·66	153	12	47·5	2	0·15
183	Stone 3790	10·0	1	7	35	26·17	153	0	47·6	1	0·16
184	... ...	8·2	1	7	35	41·56	144	20	56·2	1	0·17
185	76 Geminorum *c*	5·3	...	7	36	22·11	63	54	56·4	2	0·20
186	Taylor 3195	8·0	2	7	36	40·98	150	20	19·1	2	0·17
187	77 Geminorum κ	3·6	...	7	36	46·69	65	17	59·4	1	0·16
188	... ...	7·6	1	7	36	49·36	128	56	26·5	1	0·18
189	Gould 9984	7·7	1	7	37	5·94	130	52	6·2	1	0·19
190	78 Geminorum β (*Pollux*).	1·1	...	7	37	32·51	61	40	10·3	2	0·10
191	... ...	8·6	1	7	37	51·61	130	59	19·2	1	0·22
192	... ...	7·9	1	7	38	5·40	128	54	7·7	1	0·12
193	... ...	9·0	1	7	41	52·21	148	9	37·1	1	0·05
194	... ...	8·9	1	7	42	10·21	153	5	39·1	1	0·21
195	Lacaille 3034	8·6	1	7	44	10·58	153	52	58·8	1	0·11
196	... ...	9·0	2	7	44	28·21	130	57	20·2	2	0·13
197	83 Geminorum ϕ	4·9	...	7	45	43·33	62	54	28·0	2	0·06
198	... ...	8·6	2	7	47	12·49	153	22	9·6	2	0·12
199	... ...	9·3	1	7	49	1·40	129	56	11·9	1	0·17
200	... ...	9·0	1	7	49	17·78	130	27	27·1	1	0·14
201	... ...	7·0	1	7	49	36·36	152	36	17·0	1	0·18
202	1 Cancri	5·9	...	7	49	46·76	73	52	21·2	1	0·14
203	Taylor 3323	7·6	2	7	49	57·63	149	17	7·3	2	0·19
204	... ...	7·9	2	7	50	5·40	149	9	51·7	2	0·20
205	... ...	8·4	2	7	50	23·88	129	39	51·1	2	0·21
206	Gould 10480	8·0	2	7	52	36·43	151	32	5·0	2	0·16
207	5 Cancri	6·2	2	7	54	15·91	73	11	49·5	2	0·11
208	6 Cancri	5·0	...	7	55	42·97	61	51	7·4	2	0·10
209	... ...	9·6	1	7	56	50·59	129	22	49·1	1	0·16
210	... ...	9·5	2	7	57	43·59	156	25	37·1	2	0·20

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	... ...	+ 1·4742	− 0·0024	...	+ 7·375	+ 0·197	...	...
177	66 Geminorum a^2 ...	+ 3·8538	− 0·0133	− 0·015	+ 7·391	+ 0·519	+ 0·08	1087
178	... ...	+ 2·0387	+ 0·0009	...	+ 7·425	+ 0·273	...	...
179	... ...	+ 0·6157	− 0·0146	...	+ 7·456	+ 0·081	...	...
180	74 Geminorum f ...	+ 3·4710	− 0·0078	− 0·002	+ 7·848	+ 0·463	− 0·02	1103
181	10 Canis Minoris a ...	+ 3·1916	− 0·0041	− 0·047	+ 7·888	+ 0·425	+ 1·03	1106
182	... ...	+ 0·6399	− 0·0153	...	+ 7·932	+ 0·083	...	...
183	Stone 3790	+ 0·6712	− 0·0152	...	+ 8·111	+ 0·087	...	...
184	... ...	+ 1·3644	− 0·0041	...	+ 8·132	+ 0·179	...	...
185	76 Geminorum c ...	+ 3·6697	− 0·0124	− 0·003	+ 8·186	+ 0·485	+ 0·03	1109
186	Taylor 3195	+ 0·9305	− 0·0105	...	+ 8·211	+ 0·120	...	...
187	77 Geminorum κ ...	+ 3·6332	− 0·0109	− 0·003	+ 8·219	+ 0·480	+ 0·06	1111
188	... ...	+ 2·0869	+ 0·0010	...	+ 8·223	+ 0·274	...	...
189	Gould 9984	+ 2·0176	+ 0·0009	...	+ 8·244	+ 0·264	...	...
190	78 Geminorum β ...	+ 3·7287	− 0·0128	− 0·048	+ 8·280	+ 0·491	+ 0·05	1112
191	... ...	+ 2·0149	+ 0·0008	...	+ 8·305	+ 0·264	...	...
192	... ...	+ 2·0907	+ 0·0010	...	+ 8·324	+ 0·274	...	...
193	... ...	+ 1·1284	− 0·0078	...	+ 8·624	+ 0·145	...	...
194	... ...	+ 0·6951	− 0·0161	...	+ 8·647	+ 0·088	...	...
195	Lacaille 3084 ...	+ 0·6221	− 0·0180	...	+ 8·804	+ 0·078	...	...
196	... ...	+ 2·0304	+ 0·0008	...	+ 8·828	+ 0·262	...	...
197	53 Geminorum ϕ ...	+ 3·6846	− 0·0130	− 0·002	+ 8·927	+ 0·478	+ 0·03	1128
198	... ...	+ 0·6924	− 0·0170	...	+ 9·043	+ 0·086	...	...
199	... ...	+ 2·0772	+ 0·0010	...	+ 9·184	+ 0·266	...	...
200	... ...	+ 2·0594	+ 0·0010	...	+ 9·204	+ 0·263	...	...
201	... ...	+ 0·7818	− 0·0153	...	+ 9·230	+ 0·098	...	...
202	1 Cancri	+ 3·4154	− 0·0084	− 0·003	+ 9·243	+ 0·439	+ 0·03	1138
203	Taylor 3323	+ 1·0759	− 0·0095	...	+ 9·257	+ 0·135	...	...
204	... ...	+ 1·0862	− 0·0092	...	+ 9·267	+ 0·137	...	...
205	... ...	+ 2·0898	+ 0·0011	...	+ 9·290	+ 0·266	...	...
206	Gould 10480	+ 0·8977	− 0·0134	...	+ 9·461	+ 0·112	...	...
207	5 Cancri	+ 3·4269	− 0·0090	− 0·002	+ 9·590	+ 0·436	− 0·00	1146
208	6 Cancri	+ 3·6982	− 0·0148	− 0·003	+ 9·701	+ 0·468	+ 0·04	1149
209	... ...	+ 2·1144	+ 0·0013	...	+ 9·787	+ 0·265	...	...
210	... ...	+ 0·4036	− 0·0273	...	+ 9·855	+ 0·048	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	8 Cancri	5·1	...	7	57	59·85	76	31	19·7	4	0·18
212	... ...	9·5	...	8	1	15·52	69	20	55·3	1	0·20
213	15 Argûs	2·9	...	8	2	8·17	113	56	23·6	5	0·10
214	... ...	9·6	2	8	2	25·70	113	48	19·2	2	0·17
215	14 Cancri ψ^3	5·8	...	8	2	48·08	64	6	34·2	1	0·12
216	... ...	9·7	1	8	4	38·62	154	42	6·7	1	0·16
217	... ...	10·0	1	8	10	15·56	150	48	18·6	1	0·16
218	W. B. N. VIII. 178 ...	9·9	1	8	10	25·74	74	17	50·3	1	0·21
219	... ...	9·7	1	8	10	29·01	150	34	19·1	1	0·22
220	... ...	9·5	2	8	10	35·29	151	27	57·3	2	0·18
221	... ...	8·4	2	8	11	58·99	152	2	56·3	2	0·22
222	19 Cancri λ	5·7	...	8	12	58·85	65	34	47·7	2	0·07
223	... ...	8·4	1	8	13	1·11	130	29	59·7	1	0·18
224	... ...	10·0	1	8	14	37·52	154	6	45·4	1	0·15
225	33 Cancri η	5·5	...	8	25	21·67	69	7	45·2	7	0·16
226	... ...	8·0	2	8	26	20·84	144	59	33·7	2	0·14
227	... ...	9·2	1	8	26	45·14	130	32	17·9	1	0·14
228	... ...	9·3	1	8	29	9·34	75	20	56·1	1	0·17
229	... ...	9·6	2	8	29	18·45	70	42	29·4	2	0·18
230	W. B. N. VIII. 684 ...	8·5	1	8	29	31·90	70	40	44·1	1	0·21
231	11 Hydræ ϵ	3·6	...	8	40	2·95	83	7	0·6	15	0·17
232	R. P. L. 60	6·5	...	8	48	26·91	5	18	53·9	4	0·47
233	... ...	10·0	1	8	48	27·70	133	27	9·2	1	0·17
234	T Cancri, Var. 3	9·0	1	8	49	24·74	69	40	0·7	1	0·21
235	... ...	10·3	2	8	51	12·87	98	46	18·5	2	0·23
236	... ...	9·7	2	8	51	35·69	147	16	36·8	2	0·20
237	... ...	9·7	3	8	52	13·20	137	26	44·5	3	0·15
238	... ...	8·0	1	8	55	14·22	142	51	1·6	1	0·15
239	Taylor 3941	8·4	1	8	55	15·74	144	8	29·2	1	0·13
240	69 Cancri ν	5·6	...	8	55	18·57	65	2	56·2	3	0·16
241	... ...	9·9	1	8	56	34·18	146	53	10·6	1	0·20
242	... ...	9·5	1	8	57	3·97	129	20	18·6	1	0·19
243	77 Cancri ξ	5·2	....	9	2	3·25	67	26	33·4	1	0·12
244	... ...	10·4	2	9	9	54·95	73	54	58·4	2	0·23
245	... ...	9·6	1	9	10	27·52	150	27	35·5	1	0·19

218.—Comparison star for Ariadne in 1863.
229—230.—Observed for map of U Cancri, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	8 Cancri	+ 3·3511	− 0·0079	− 0·002	+ 9·875	+ 0·422	+ 0·06	1156
212	... ...	+ 3·5072	− 0·0113	...	+ 10·123	+ 0·438	...	...
213	15 Argûs	+ 2·5609	+ 0·0009	− 0·008	+ 10·189	+ 0·318	− 0·06	1170
214	... ...	+ 2·5646	+ 0·0009	...	+ 10·210	+ 0·318	...	...
215	14 Cancri ψ^2	+ 3·6303	− 0·0140	− 0·007	+ 10·239	+ 0·452	+ 0·35	1167
216	... ...	+ 0·6518	− 0·0217	...	+ 10·377	+ 0·078	...	...
217	... ...	+ 1·0557	− 0·0120	...	+ 10·795	+ 0·125	...	...
218	W. B. N. VIII. 178 ...	+ 3·3888	− 0·0096	...	+ 10·807	+ 0·412	...	...
219	... ...	+ 1·0762	− 0·0116	...	+ 10·810	+ 0·127	...	...
220	... ...	+ 1·0019	− 0·0133	...	+ 10·818	+ 0·118	...	...
221	... ...	+ 0·9590	− 0·0146	...	+ 10·922	+ 0·112	...	...
222	19 Cancri λ	+ 3·5799	− 0·0142	− 0·002	+ 10·994	+ 0·431	+ 0·03	1182
223	... ...	+ 2·1173	+ 0·0016	...	+ 10·998	+ 0·253	...	...
224	... ...	+ 0·7792	− 0·0198	...	+ 11·114	+ 0·090	...	...
225	33 Cancri η	+ 3·4828	− 0·0129	− 0·004	+ 11·884	+ 0·404	+ 0·05	1207
226	... ...	+ 1·5394	− 0·0036	...	+ 11·953	+ 0·175	...	...
227	... ...	+ 2·1554	+ 0·0022	...	+ 11·981	+ 0·247	...	...
228	... ...	+ 3·3504	− 0·0092	...	+ 12·147	+ 0·384	...	...
229	... ...	+ 3·4443	− 0·0124	...	+ 12·161	+ 0·395	...	...
230	W. B. N. VIII. 684 ...	+ 3·4447	− 0·0124	...	+ 12·177	+ 0·395	...	...
231	11 Hydræ ε	+ 3·1957	− 0·0071	− 0·014	+ 12·804	+ 0·351	+ 0·02	1343
232	R. P. L. 60	+ 13·7330	− 1·7190	...	+ 13·448	+ 1·480	...	...
233	... ...	+ 2·1326	+ 0·0033	...	+ 13·450	+ 0·225	...	...
234	T Cancri, Var. 3 ...	+ 3·4384	− 0·0141	...	+ 13·511	+ 0·366	...	...
235	... ...	+ 2·9208	− 0·0016	...	+ 13·626	+ 0·307	...	...
236	... ...	+ 1·5481	− 0·0037	...	+ 13·651	+ 0·159	...	...
237	... ...	+ 2·0082	+ 0·0027	...	+ 13·690	+ 0·208	...	...
238	... ...	+ 1·7987	+ 0·0005	...	+ 13·883	+ 0·184	...	...
239	Taylor 3941	+ 1·7375	− 0·0003	...	+ 13·884	+ 0·177	...	...
240	69 Cancri ν	+ 3·5209	− 0·0172	...	+ 13·888	+ 0·364	...	...
241	... ...	+ 1·6013	− 0·0026	...	+ 13·966	+ 0·162	...	...
242	... ...	+ 2·2876	+ 0·0040	...	+ 13·997	+ 0·233	...	...
243	77 Cancri	+ 3·4613	− 0·0159	− 0·001	+ 14·307	+ 0·348	− 0·03	1289
244	... .	+ 3·3328	− 0·0121	...	+ 14·781	+ 0·323	...	...
245	... ...	+ 1·4819	− 0·0052	...	+ 14·812	+ 0·140	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
246	... ...	9·8	1	9	11	24·77	70	42	59·8	1	0·26
247	83 Cancri	6·6	...	9	11	53·50	71	45	28·8	4	0·17
248	ι Argûs	2·5	...	9	13	41·21	148	44	37·5	2	0·23
249	... ...	8·9	1	9	15	32·31	143	50	59·1	1	0·20
250	... ...	8·3	2	9	15	58·09	124	49	8·1	2	0·17
251	... ...	9·6	2	9	16	50·76	70	28	59·1	2	0·24
252	... ...	9·4	1	9	16	53·70	124	49	50·2	1	0·28
253	... ...	8·1	3	9	19	58·76	75	8	49·0	3	0·18
254	Lalande 18595	8·8	5	9	20	46·35	66	9	52·5	5	0·20
255	30 Hydræ α, Var. 2 ...	Var.	...	9	21	20·75	98	6	33·5	2	0·16
256	2 Leonis ω...	5·6	...	9	21	39·47	80	23	29·2	3	0·21
257	25 Urs. Maj. θ	3·2	...	9	24	21·17	37	44	44·0	1	0·24
258	4 Leonis λ...	4·4	...	9	24	28·31	66	28	24·3	3	0·17
259	17 Leonis ε	3·1	...	9	38	38·30	65	38	32·9	15	0·20
260	... ...	8·0	1	9	39	55·94	148	36	9·6	1	0·16
261	... ...	8·0	1	9	42	11·85	130	51	51·5	1	0·17
262	Bonn +18°. 2276... ...	9·1	5	9	43	42·04	71	40	25·6	5	0·19
263	... ...	9·5	1	9	44	26·41	148	32	27·7	1	0·28
264	Bonn +18°. 2278... ...	8·7	5	9	44	39·31	71	55	28·8	5	0·18
265	Bonn +18°. 2279... ...	9·1	2	9	44	48·21	72	3	11·9	2	0·21
266	... ...	9·2	1	9	45	19·36	129	49	49·6	1	0·15
267	R. P. L. 70	6·5	...	9	48	1·91	5	28	20·3	1	0·61
268	W. B. N. IX. 1020 ..	9·0	2	9	48	57·20	71	51	24·9	3	0·25
269	W. B. N. IX. 1047 ...	9·2	3	9	50	2·34	72	20	27·5	3	0·26
270	... ...	10·3	3	9	52	45·61	72	4	14·3	4	0·27
271	29 Leonis π	5·0	...	9	53	30·06	81	20	51·8	4	0·16
272	... ...	9·6	2	9	55	9·88	125	20	0·4	2	0·20
273	W. B. N. IX. 1160 ...	8·9	1	9	55	35·98	73	20	15·2	1	0·24
274	Taylor 4444	6·5	3	9	55	43·91	67	26	23·0	3	0·19
275	... ...	8·7	1	9	56	45·43	144	6	28·8	1	0·23
276	W. B. N. IX. 1189 ...	9·8	1	9	56	57·06	73	10	14·1	1	0·30
277	W. B. N. IX. 1230 ...	9·7	1	9	58	22·20	72	55	4·8	1	0·29
278	30 Leonis η	3·6	...	10	0	24·30	72	37	8·8	1	0·30
279	W. B. N. IX. 1282 ...	9·0	4	10	0	47·78	73	6	15·3	4	0·21
280	32 Leonis α (*Regulus*) ..	1·4	...	10	1	36·46	77	24	48·6	4	0·19

254.—Comparison star for Metis in 1862.
262—264—265—268—269—270—273—276—277—278—279.—Comparison stars for Mars in 1869.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
246	... ...	+ 3·3861	− 0.0140	...	+ 14·869	+ 0·326	...	...
247	83 Cancri	+ 3·3672	− 0·0134	− 0·009	+ 14·897	+ 0·323	+ 0·14	1309
248	ι Argûs	+ 1·6104	− 0·0022	...	+ 15·002	+ 0·150	...	...
249	... ...	+ 1·8688	+ 0·0026	...	+ 15·108	+ 0·174	...	...
250	... ...	+ 2·4620	+ 0·0053	...	+ 15·133	+ 0·229	...	...
251	... ...	+ 3·3818	− 0·0142	...	+ 15·184	+ 0·316	...	...
252	... ...	+ 2·4646	+ 0·0053	...	+ 15·187	+ 0·228	...	...
253	... ...	+ 3·3002	− 0·0116	...	+ 15·361	+ 0·303	...	...
254	Lalande 18595 ...	+ 3·4503	− 0·0173	...	+ 15·406	+ 0·315	...	...
255	30 Hydræ α, Var. 2...	+ 2·9505	− 0·0013	− 0·002	+ 15·439	+ 0·268	− 0·05	1330
256	2 Leonis ω	+ 3·2190	− 0·0090	+ 0·002	+ 15·455	+ 0·293	− 0·02	1328
257	25 Ursæ Majoris θ ...	+ 4·1569	− 0·0561	− 0·104	+ 15·605	+ 0·374	+ 0·56	1332
258	4 Leonis λ	+ 3·4375	− 0·0172	− 0·002	+ 15·611	+ 0·308	+ 0·03	1335
259	17 Leonis ε	+ 3·4223	− 0·0180	− 0·004	+ 16·359	+ 0·282	+ 0·01	1368
260	... ...	+ 1·8152	+ 0·0036	...	+ 16·424	+ 0·145	...	...
261	... ...	+ 2·4180	+ 0·0083	...	+ 16·538	+ 0·193	...	...
262	Bonn + 18°. 2276 ...	+ 3·3203	− 0·0138	...	+ 16·612	+ 0·265	...	...
263	... ...	+ 1·8538	+ 0·0047	...	+ 16·648	+ 0·144	...	...
264	Bonn +18°. 2278 ...	+ 3·3151	− 0·0136	...	+ 16·658	+ 0·263	...	...
265	Bonn +18°. 2279 ...	+ 3·3130	− 0·0135	...	+ 16·665	+ 0·262	...	...
266	... ...	+ 2·4540	+ 0·0085	...	+ 16·690	+ 0·192	...	...
267	R. P. L. 70	+ 10·6727	− 1·5626	...	+ 16·815	+ 0·841	...	...
268	W. B. N. IX. 1020 ...	+ 3·3093	− 0·0137	...	+ 16·865	+ 0·255	...	...
269	W. B. N. IX. 1047 ...	+ 3·3008	− 0·0133	...	+ 16·916	+ 0·251	...	...
270	... ...	+ 3·3002	− 0·0134	...	+ 17·042	+ 0·247	...	...
271	29 Leonis π	+ 3·1789	− 0·0080	− 0·004	+ 17·076	+ 0·236	+ 0·01	1398
272	... ...	+ 2·5811	+ 0·0086	...	+ 17·152	+ 0·188	...	...
273	W. B. N. IX. 1160 ...	+ 3·2788	− 0·0127	...	+ 17·172	+ 0·240	...	...
274	Taylor 4444	+ 3·3587	− 0·0165	...	+ 17·178	+ 0·245	...	...
275	... ...	+ 2·1260	+ 0·0102	...	+ 17·224	+ 0·152	...	...
276	W. B. N. IX. 1189 ...	+ 3·2790	− 0·0127	...	+ 17·232	+ 0·238	...	...
277	W. B. N. IX. 1230 ...	+ 3·2801	− 0·0129	...	+ 17·296	+ 0·235	...	...
278	30 Leonis η	+ 3·2808	− 0·0131	+ 0·001	+ 17·386	+ 0·232	− 0·00	1408
279	W. B. N. IX. 1282 ...	+ 3·2740	− 0·0127	...	+ 17·403	+ 0·231	...	...
280	32 Leonis α (*Regulus*)	+ 3·2196	− 0·0102	+ 0·018	+ 17·437	+ 0·225	+ 0·02	1406

60

Mean Positions of Stars for 1873, *January*, 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
281	... ...	9·8	1	10	2	43·27	123	30	4·7	1	0·24
282	33 Leonis	8·0	1	10	3	50·65	73	40	14·9	1	0·24
283	... ...	8·7	1	10	4	49·64	122	56	38·5	1	0·16
284	R. P. L. 72	5·6	...	10	10	50·25	5	6	18·0	4	0·24
285	41 Leonis γ^1	2·2	...	10	12	57·97	69	31	2·5	7	0·18
286	41 Leonis γ^2	4·0	...	10	12	58·37	69	31	3·3	10	0·27
287	47 Leonis ρ	4·0	...	10	26	7·38	80	2	26·2	15	0·25
288	... ...	9·0	1	10	26	48·62	152	28	36·6	1	0·17
289	... ...	10·0	1	10	28	22·60	131	44	22·2	1	0·16
290	50 Leonis	6·5	...	10	32	5·76	73	12	43·7	2	0·17
291	Stone 5932	9·0	1	10	39	23·69	148	37	1·6	1	0·18
292	... ...	9·2	2	10	39	47·30	139	4	58·0	2	0·20
293	Taylor 4872	8·0	1	10	41	25·34	151	16	23·1	1	0·21
294	... ...	9·7	3	10	41	46·81	146	26	2·5	3	0·29
295	... ...	9·6	1	10	42	16·47	149	25	42·7	1	0·30
296	53 Leonis l	5·3	...	10	42	34·82	78	46	59·5	4	0·26
297	Cordoba 14787	10·1	3	10	42	45·96	148	54	11·8	3	0·31
298	... ...	9·8	2	10	42	51·34	75	7	39·2	2	0·33
299	... ...	9·0	1	10	42	59·43	141	7	17·2	1	0·28
300	... ...	8·5	2	10	44	16·45	137	5	39·0	2	0·21
301	... ...	9·6	2	10	47	20·88	141	47	42·2	2	0·22
302	... ...	8·6	1	10	48	14·15	150	8	27·2	1	0·20
303	... ...	9·3	2	10	48	18·11	147	44	55·7	2	0·25
304	R. P. L. 79	7·7	...	10	57	49·53	1	40	16·9	3	0·64
305	63 Leonis χ	4·7	...	10	58	27·89	81	58	40·1	12	0·27
306	65 Leonis p^4	5·7	...	11	0	25·60	87	21	28·9	2	0·20
307	... ...	9·6	2	11	0	59·29	147	16	39·2	2	0·26
308	... ...	8·4	2	11	1	25·73	135	36	31·9	2	0·22
309	... ...	8·2	1	11	2	11·51	149	16	38·7	1	0·28
310	... ...	8·2	1	11	2	20·80	148	59	7·4	1	0·20
311	S Leonis, Var. 2	10·3	4	11	4	16·89	83	51	4·0	4	0·33
312	... ...	8·8	3	11	4	42·70	150	17	28·5	3	0·28
313	Taylor 5088	7·7	1	11	5	18·17	149	41	47·2	1	0·28
314	... ...	10·3	1	11	6	9·32	83	53	20·6	1	0·33
315	Taylor 5108	5·6	1	11	7	9·70	149	37	41·4	1	0.24

[21·0]

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
281	... ...	+ 2·6388	+ 0·0084	...	+ 17·486	+ 0·182	...	...
282	33 Leonis	+ 3·2623	− 0·0123	+ 0·005	+ 17·534	+ 0·223	+ 0·01	Gr.
283	... ...	+ 2·6549	+ 0·0089	...	+ 17·575	+ 0·179	...	...
284	R. P. L. 72	+ 9·9339	− 1·6311	− 0·096	+ 17·822	+ 0·656	− 0·04	1399
285	41 Leonis γ^1 ...	+ 3·2970	− 0·0148	+ 0·021	+ 17·907	+ 0·208	+ 0·14	1432
286	41 Leonis γ^2 ...	+ 3·2969	− 0·0148	+ 0·021	+ 17·907	+ 0·208	+ 0·14	1432
287	47 Leonis ρ	+ 3·1657	− 0·0080	− 0·001	+ 18·395	+ 0·176	− 0·01	1467
288	... ...	+ 2·0575	+ 0·0154	...	+ 18·419	+ 0·111	...	...
289	... ...	+ 2·6078	+ 0·0145	...	+ 18·473	+ 0·140	...	...
290	50 Leonis	+ 3·2231	− 0·0119	+ 0·002	+ 18·602	+ 0·168	+ 0·01	1478
291	Stone 5932	+ 2·3172	+ 0·0213	...	+ 18·827	+ 0·109	...	...
292	... ...	+ 2·5432	+ 0·0191	...	+ 18·838	+ 0·119	...	...
293	Taylor 4872	+ 2·2521	+ 0·0220	...	+ 18·887	+ 0·102	...	...
294	... ...	+ 2·3978	+ 0·0218	...	+ 18·898	+ 0·109	...	...
295	... ...	+ 2·3193	+ 0·0223	...	+ 18·912	+ 0·105	...	...
296	53 Leonis l	+ 3·1601	− 0·0080	− 0·002	+ 18·921	+ 0·145	+ 0·02	1500
297	Cordoba 14787 ...	+ 2·3393	+ 0·0226	...	+ 18·926	+ 0·105	...	...
298	... ...	+ 3·1895	− 0·0104	...	+ 18·929	+ 0·147	...	...
299	... ...	+ 2·5255	+ 0·0205	...	+ 18·933	+ 0·114	...	...
300	... ...	+ 2·6056	+ 0·0198	...	+ 18·969	+ 0·116	...	...
301	... ...	+ 2·5427	+ 0·0218	...	+ 19·055	+ 0·108	...	...
302	... ...	+ 2·3548	+ 0·0246	...	+ 19·080	+ 0·098	...	...
303	... ...	+ 2·4202	+ 0·0242	...	+ 19·081	+ 0·101	...	...
304	R. P. L. 79	+ 15·3575	− 8·8824	...	+ 19·321	+ 0·593	...	...
305	63 Leonis χ	+ 3·1221	− 0·0056	− 0·026	+ 19·336	+ 0·113	+ 0·02	1535
306	65 Leonis p^4 ...	+ 3·0881	− 0·0028	− 0·029	+ 19·381	+ 0·109	+ 0·06	1539
307	... ...	+ 2·5424	+ 0·0282	...	+ 19·393	+ 0·087	...	...
308	... ...	+ 2·7270	+ 0·0216	...	+ 19·402	+ 0·093	...	...
309	... ...	+ 2·5108	+ 0·0297	...	+ 19·420	+ 0·084	...	...
310	... ...	+ 2·5188	+ 0·0296	...	+ 19·423	+ 0·084	...	...
311	S. Leonis, Var. 2 ...	+ 3·1068	− 0·0044	...	+ 19·465	+ 0·101	...	...
312	... ...	+ 2·5125	+ 0·0313	...	+ 19·473	+ 0·080	...	...
313	Taylor 5088	+ 2·5315	+ 0·0312	...	+ 19·486	+ 0·080	...	...
314	... .	+ 3·1056	− 0·0043	...	+ 19·503	+ 0·098	...	...
315	Taylor 5108	+ 2·5509	+ 0·0319	...	+ 19·523	+ 0·077	...	...

282.—Proper motions from "*Greenwich Catalogue*, 1872".

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
316	... ...	9·0	3	11	7	19·68	65	27	58·4	3	0·32
317	68 Leonis δ	2·8	...	11	7	21·03	68	46	51·7	3	0·30
318	Taylor 5107	6·6	3	11	7	25·86	81	14	39·6	3	0·28
319	... ...	9·9	2	11	9	52·42	145	58	12·1	2	0·32
320	... ...	9·2	2	11	10	7·93	147	17	56·3	2	0·27
321	... ...	8·5	1	11	10	48·87	148	58	46·3	1	0·19
322	12 Crateris δ	3·9	...	11	12	59·51	104	5	30·4	5	0·29
323	77 Leonis σ	4·1	...	11	14	35·34	83	16	30·5	3	0·20
324	78 Leonis ι	4·0	...	11	17	18·27	78	46	17·4	1	0·18
325	O. A. N. 11812	8·6	1	11	23	41·61	23	0	43·0	1	0·23
326	... ...	10·0	1	11	23	54·32	23	24	7·5	1	0·29
327	... ...	9·3	2	11	25	46·97	128	29	45·3	2	0·24
328	... ...	9·6	2	11	25	53·82	22	58	59·0	2	0·29
329	... ...	10·0	1	11	26	13·85	128	25	44·5	1	0·31
330	... ...	9·0	1	11	26	40·36	143	54	16·7	1	0·31
331	... ...	10·5	2	11	26	55·24	151	40	53·6	2	0·35
332	Cordoba 15790	9·0	1	11	27	0·95	151	7	2·5	1	0·33
333	... ...	10·2	1	11	27	8·07	151	44	33·5	1	0·31
334	... ...	10·0	1	11	27	11·46	23	20	30·4	1	0·32
335	... ...	10·1	2	11	27	16·07	151	34	1·7	2	0·34
336	... ...	9·3	2	11	27	28·53	23	0	30·9	2	0·34
337	91 Leonis υ	4·5	...	11	30	26·82	90	7	21·5	5	0·28
338	... ...	9·1	3	11	33	31·93	144	54	36·7	3	0·27
339	W. B. E. XI. 582	9·9	7	11	34	25·56	84	20	38·5	7	0·32
340	2 Virginis ξ	4·9	...	11	38	44·29	81	2	9·9	3	0·22
341	4 Virginis A^1	5·2	...	11	41	23·45	81	2	55·5	3	0·23
342	... ...	9·8	3	11	42	2·16	84	34	38·0	3	0·31
343	94 Leonis β	2·2	...	11	42	34·85	74	43	4·9	7	0·30
344	Bonn +5°. 2550	9·9	5	11	44	34·80	84	47	51·9	5	0·32
345	64 Ursæ Majoris γ ...	2·6	...	11	47	8·54	35	35	56·7	5	0·34
346	W. B. E. XI. 805	8·2	5	11	47	58·24	85	15	22·6	5	0·23
347	Bonn +4°. 2550	10·3	3	11	51	0·76	85	22	20·1	3	0·29
348	7 Virginis b	5·2	...	11	53	26·74	85	38	16·8	1	0·21
349	Taylor 6413	9·0	1	11	54	40·18	85	38	35·7	1	0·24
350	Bonn +3°. 2592	9·4	3	11	57	44·29	86	23	25·0	3	0·35

316.—Comparison star for Thalia in 1862.
325—326—334.—Comparison stars for Comet 2, 1861.
339—342—344—346—347.—Comparison stars for Mars in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
316	... ...	+ 3·2113	− 0·0156	...	+ 19·527	+ 0·100	...	...
317	68 Léonis δ	+ 3·1904	− 0·0132	+ 0·010	+ 19·528	+ 0·098	+ 0·12	1546
318	Taylor 6007	+ 3·1190	− 0·0055	...	+ 19·529	+ 0·095	...	...
319	... ...	+ 2·6427	+ 0·0304	...	+ 19·577	+ 0·076	...	...
320	... ...	+ 2·6226	+ 0·0315	...	+ 19·583	+ 0·074	...	...
321	... ...	+ 2·5988	+ 0·0328	...	+ 19·594	+ 0·073	...	...
322	12 Crateris δ ...	+ 3·0038	+ 0·0064	− 0·011	+ 19·634	+ 0·081	− 0·21	1557
323	77 Leonis σ	+ 3·1032	− 0·0042	− 0·007	+ 19·662	+ 0·081	0·00	1558
324	78 Leonis ι	+ 3·1213	− 0·0064	+ 0·009	+ 19·707	+ 0·076	+ 0·06	1560
325	O. A. N. 11812 ...	+ 3·5689	− 0·0930	...	+ 19·803	+ 0·075	...	...
326	... ...	+ 3·5567	− 0·0905	...	+ 19·806	+ 0·074	..	...
327	... ...	+ 2·9141	+ 0·0210	...	+ 19·831	+ 0·055	...	...
328	... ...	+ 3·5395	− 0·0913	...	+ 19·833	+ 0·068	...	...
329	... ...	+ 2·9165	+ 0·0211	...	+ 19·837	+ 0·054	...	...
330	... ...	+ 2·8065	+ 0·0335	...	+ 19·843	+ 0·051	...	...
331	... ...	+ 2·7153	+ 0·0424	...	+ 19·846	+ 0·048	...	...
332	Cordoba 15790 ...	+ 2·7247	+ 0·0415	...	+ 19·847	+ 0·049	...	...
333	... ...	+ 2·7167	+ 0·0425	...	+ 19·848	+ 0·048	...	...
334	... ...	+ 3·5142	− 0·0889	...	+ 19·849	+ 0·065	...	...
335	... ...	+ 2·7207	+ 0·0423	...	+ 19·850	+ 0·048	...	...
336	... ...	+ 3·5175	− 0·0899	...	+ 19·854	+ 0·063	.	...
337	91 Leonis ν	+ 3·0718	+ 0·0003	− 0·002	+ 19·888	+ 0·049	− 0·05	1586
338	... ...	+ 2·8529	+ 0·0367	...	+ 19·921	+ 0·039	...	...
339	W. B. E. XI. 582 ...	+ 3·0869	− 0·0024	...	+ 19·930	+ 0·041	...	...
340	2 Virginis ξ	+ 3·0917	− 0·0040	+ 0·004	+ 19·968	+ 0·033	+ 0·01	1599
341	4 Virginis A^1 ...	+ 3·0893	− 0·0039	− 0·005	+ 19·988	+ 0·027	− 0·02	1602
342	... ...	+ 3·0821	− 0·0020	...	+ 19·993	+ 0·026	...	...
343	94 Leonis β	+ 3·0999	− 0·0074	− 0·036	+ 19·996	+ 0·025	+ 0·10	1605
344	Bonn +5°.2550 ...	+ 3·0803	− 0·0017	...	+ 20·010	+ 0·021	...	...
345	64 Ursæ Majoris γ ...	+ 3·1769	− 0·0433	+ 0·010	+ 20·024	+ 0·017	− 0·01	1608
346	W. B. E. XI. 805 ...	+ 3·0780	− 0·0013	...	+ 20·027	+ 0·014	...	...
347	Bonn +4°.2550 ...	+ 3·0764	− 0·0010	...	+ 20·039	+ 0·008	...	...
348	7 Virginis β ...	+ 3·0751	− 0·0008	− 0·002	+ 20·047	+ 0·005	− 0·02	1617
349	Taylor 6413	+ 3·0745	− 0·0007	...	+ 20·049	+ 0·001	...	...
350	Bonn +3°.2592 ...	+ 3·0730	− 0·0001	...	+ 20·054	− 0·005	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
351	O. A. S. 11872	8·5	5	11	57	46·67	110	19	54·6	5	0·33
352	Taylor 6440	8·1	6	11	58	12·92	85	43	6·9	6	0·35
353	R. P. L. 89	6·3	...	11	58	21·11	3	42	31·5	2	0·49
354	W. B. E. XI. 986	9·0	9	11	58	35·10	85	54	57·6	9	0·29
355	9 Virginis *o*	4·3	...	11	58	44·29	80	33	41·6	1	0·33
356	W. B. E. XI. 1058 ...	8·6	4	12	2	12·178	86	11	5·0	6	0·32
357	2 Corvi *ε*	3·1	...	12	3	35·75	111	54	48·2	7	0·26
358	... ...	8·8	1	12	4	6·50	146	0	4·2	1	0·32
359	... ...	9·0	1	12	4	18·16	145	59	21·5	1	0·34
360	Lalande 22869	9·0	4	12	5	2·96	86	41	7·0	4	0·35
361	... ...	9·9	2	12	6	30·89	130	14	7·5	2	0·34
362	... ...	8·5	1	12	6	35·75	110	1	51·1	1	0·31
363	W. B. E. XII. 87	7·9	5	12	7	26·65	87	1	58·1	5	0·31
364	... ...	8·0	1	12	9	18·64	144	23	16·1	1	0·21
365	Lalande 22983	9·0	1	12	9	34·67	96	45	36·3	1	0·33
366	Lalande 22993	8·5	1	12	9	50·22	96	49	33·4	1	0·28
367	W. B. E. XII. 139 ...	9·3	4	12	10	37·82	87	34	56·5	4	0·34
368	W. B. E. XII. 155 ...	8·3	3	12	11	27·8990	87	43	7·6	3	0·32
369	13 Virginis	5·2	...	12	12	9·75	90	4	53·2	2	0·23
370	... ...	9·0	2	12	13	21·54	108	34	8·2	2	0·38
371	15 Virginis *η*	4·0	...	12	13	24·549	89	57	39·1	10	0·30
372	R. P. L. 93	6·7	...	12	14	17·84	1	35	48·6	1	0·69
373	... ...	9·5	1	12	19	7·93	143	33	9·7	1	0·34
374	... ...	9·5	2	12	19	29·08	129	46	49·7	2	0·35
375	... ...	8·0	1	12	19	32·61	147	24	20·2	1	0·21
376	*α* Crucis—1st	...	...	12	19	32·91	152	43	43·7	1	0·27
377	*α* Crucis—2nd	...	...	12	19	33·714	152	23	47·2	3	0·31
378	... ...	8·3	2	12	19	46·38	144	7	10·6	2	0·37
379	... ...	9·2	1	12	20	21·1823	124	16	9·7	1	0·38
380	... ...	9·0	1	12	21	36·12	145	45	16·7	1	0·32
381	... ...	9·2	1	12	21	40·01 39·82	147	28	50·3	1	0·38
382	W. B. E. XII. 347 ...	9·1	5	12	21	55·06	92	3	24·9	5	0·32
383	Lalande 23342	7·2	5	12	22	38·93	91	43	36·3	5	0·25
384	... ...	10·0	1	12	23	41·63	87	4	1·8	1	0·31
385	... ...	10·0	2	12	24	21·902	91	42	50·4	2	0·35

350—352—354—356—360—363—367—368.—Comparison stars for Mars in 1871.
351—362.—Comparison stars for Julia in 1873.
365—366.—Comparison stars for Ariadne in 1870.
372.—Groombridge 1884.
382—383—385.—Comparison stars for Hestia in 1868 and 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
351	O. A. S. 11872 ...	+ 3·0674	+ 0·0129	...	+ 20·054	− 0·005	...	...
352	Taylor 6440	+ 3·0729	− 0·0004	...	+ 20·054	− 0·006	...	...
353	R. P. L. 89	+ 3·2220	− 0·5042	...	+ 20·054	− 0·006	...	...
354	W. B. E. XI. 986 ...	+ 3·0728	− 0·0003	...	+ 20·054	− 0·006	...	...
355	9 Virginis *o*	+ 3·0734	− 0·0032	− 0·016	+ 20·054	− 0·007	− 0·05	1623
356	W. B. E. XI. 1058 ...	+ 3·0713	0·0000	...	+ 20·054	− 0·014	...	...
357	2 Corvi *e*	+ 3·0806	+ 0·0142	− 0·006	+ 20·052	− 0·016	− 0·02	1626
358	... ...	+ 3·1077	+ 0·0473	...	+ 20·052	− 0·016	...	...
359	... ...	+ 3·1094	+ 0·0474	...	+ 20·050	− 0·017	...	...
360	Lalande 22869 ...	+ 3·0705	+ 0·0005	...	+ 20·049	− 0·019	...	...
361	... ...	+ 3·1044	+ 0·0280	...	+ 20·046	− 0·021	...	...
362	... ...	+ 3·0862	+ 0·0132	...	+ 20·046	− 0·022	...	...
363	W. B. E. XII. 87 ...	+ 3·0699	+ 0·0008	...	+ 20·044	− 0·024	...	...
364	... ...	+ 3·1480	+ 0·0460	...	+ 20·038	− 0·027	...	...
365	Lalande 22983 ...	+ 3·0788	+ 0·0059	...	+ 20·037	− 0·027	...	...
366	Lalande 22993 ...	+ 3·0790	+ 0·0061	...	+ 20·036	− 0·028	...	...
367	W. B. E. XII. 139 ...	+ 3·0696	+ 0·0012	...	+ 20·033	− 0·030	...	...
368	W. B. E. XII. 155 ...	+ 3·0695	+ 0·0014	...	+ 20·030	− 0·032	...	...
369	13 Virginis	+ 3·0723	+ 0·0026	− 0·000	+ 20·026	− 0·032	+ 0·03	1643
370	... ...	+ 3·0984	+ 0·0128	...	+ 20·020	− 0·035	...	...
371	16 Virginis *η*... ...	+ 3·0721	+ 0·0027	− 0·006	+ 20·020	− 0·035	+ 0·02	1647
372	R. P. L. 93	+ 0·0831	+ 1·0157	− 0·152	+ 20·016	− 0·010	− 0·07	Main
373	... ...	+ 3·2232	+ 0·0464	...	+ 19·985	− 0·047	...	...
374	... ...	+ 3·1667	+ 0·0292	...	+ 19·982	− 0·047	...	...
375	... ...	+ 3·2504	+ 0·0546	...	+ 19·982	− 0·040	...	...
376	*α* Crucis—1st ...	+ 3·2898	+ 0·0680	− 0·006	+ 19·982	− 0·050	+ 0·04	Stone
377	*α* Crucis—2nd ...	+ 3·2900	+ 0·0680	− 0·006	+ 19·981	− 0·050	+ 0·04	Stone
378	... ...	+ 3·2315	+ 0·0482	...	+ 19·979	− 0·049	...	...
379	... ...	+ 3·1530	+ 0·0244	...	+ 19·975	− 0·049	...	...
380	... ...	+ 3·2570	+ 0·0518	...	+ 19·965	− 0·053	...	...
381	... ...	+ 3·2702	+ 0·0556	...	+ 19·964	− 0·053	...	...
382	W. B. E. XII. 347 ...	+ 3·0767	+ 0·0042	...	+ 19·963	− 0·052	...	...
383	Lalande 23342 ...	+ 3·0761	+ 0·0041	...	+ 19·957	− 0·053	...	...
384	... ...	+ 3·0651	+ 0·0017	...	+ 19·947	− 0·055	...	...
385	... ...	+ 3·0764	+ 0·0042	...	+ 19·941	− 0·057	...	...

372.—Proper motions from Main's list.
376—377.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
386	... ...	9·5	1	12	25	4·77	151	47	52·7	1	0·35
387	Lalande 23476	9·2	5	12	27	16·62	94	32	29·7	5	0·30
388	9 Corvi β	2·8	...	12	27	43·13	112	41	39·6	4	0·34
389	... ...	10·2	1	12	27	56·95	99	40	41·0	1	0·36
390	... ...	8·5	1	12	28	18·50	141	42	56·2	1	0·28
391	25 Virginis *f*	5·9	...	12	30	14·87	95	7	53·0	1	0·23
392	T Ursæ Majoris, Var. 3 ...	8·9	4	12	30	36·07	29	48	47·9	5	0·32
393	... ...	9·5	1	12	32	19·47	84	33	29·7	1	0·31
394	... ...	9·8	2	12	32	33·16	29	17	19·0	2	0·39
395	... ...	8·8	1	12	33	19·08	143	10	21·2	1	0·35
396	Lalande 23656	8·7	5	12	33	35·96	95	17	9·2	5	0·31
397	29 Virginis γ^1 (*North*) ...	3·5	...	12	35	13·43	90	45	7·3	4	0·38
398	29 Virginis γ^2 (*South*) ...	3·5	...	12	35	13·60	90	45	12·7	6	0·34
399	28 Virginis	7·0	...	12	35	23·78	96	48	5·2	1	0·28
400	S Ursæ Majoris, Var. 2 ...	8·3	4	12	38	22·47	28	12	38·5	4	0·30
401	35 Virginis	6·2	4	12	41	23·50	85	44	0·6	4	0·23
402	... ...	9·4	1	12	42	34·39	147	19	27·7	1	0·35
403	... ...	9·0	1	12	43	21·32	139	28	16·0	1	0·34
404	... ...	9·0	2	12	43	46·87	129	10	48·1	2	0·34
405	U Virginis, Var. 3 ...	9·2	3	12	44	39·07	83	45	18·8	3	0·35
406	37 Virginis	3·0	...	12	45	9·05	86	15	10·4	1	0·26
407	Radcliffe 2922	7·4	1	12	45	29·77	26	19	23·2	1	0·28
408	R. P. L. 98	6·6	...	12	48	5·74	5	53	33·4	3	0·90
409	43 Virginis δ	3·7	...	12	49	12·35	85	54	42·8	2	0·34
410	12 Canum Venaticorum α.	3·1	...	12	50	5·01	50	59	43·7	9	0·33
411	Taylor 5974	8·7	2	12	52	25·82	143	41	32·2	2	0·32
412	44 Virginis κ	4·4	...	12	53	7·04	93	7	36·4	3	0·36
413	... ...	9·0	1	12	53	47·92	143	43	18·7	1	0·35
414	... ...	9·0	1	12	53	56·11	135	47	24·7	1	0·30
415	51 Virginis θ	4·4	...	13	3	22·51	94	51	38·1	19	0·33
416	... ...	...	...	13	6	7·17	124	19	25·0	1	0·38
417	W Virginis, Var. 1 ...	8·3	2	13	7	22·90	105	52	49·4	2	0·37
418	... ...	9·9	2	13	8	37·56	139	48	38·8	2	0·38
419	58 Virginis	7·0	1	13	10	48·06	99	52	35·0	2	0·33
420	O. A. N. 13563	7·9	1	13	15	44·79	27	56	6·0	1	0·28

387—396.—Comparison stars for Asia in 1872.
389.—Comparison star for Sappho in 1867.
407—420.—Comparison stars for Comet 2, 1861.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
386	... ...	+ 3·3444	+ 0·0683	...	+ 19·935	− 0·062	...	...
387	Lalande 23476 ...	+ 3·0848	+ 0·0059	...	+ 19·913	− 0·063	...	...
388	9 Corvi β	+ 3·1396	+ 0·0164	− 0·003	+ 19·908	− 0·064	+ 0·05	1685
389	... ...	+ 3·0999	+ 0·0086	...	+ 19·905	− 0·064	...	...
390	... ...	+ 3·2810	+ 0·0459	...	+ 19·902	− 0·067	...	...
391	25 Virginis *f*... ...	+ 3·0880	+ 0·0063	− 0·004	+ 19·880	− 0·068	+ 0·02	1690
392	T Urs. Maj., Var. 3...	+ 2·7616	− 0·0377	...	+ 19·875	− 0·062	...	...
393	... ...	+ 3·0544	+ 0·0009	...	+ 19·855	− 0·071	...	...
394	... ...	+ 2·7348	− 0·0376	...	+ 19·852	− 0·065	...	...
395	... ...	+ 3·3309	+ 0·0496	...	+ 19·843	− 0·079	...	...
396	Lalande 23656 ...	+ 3·0903	+ 0·0066	...	+ 19·840	− 0·075	...	...
397	29 Virginis γ^1 ...	+ 3·0748	+ 0·0043	− 0·039	+ 19·819	− 0·078	− 0·02	1698
398	29 Virginis γ^2 ...	+ 3·0748	+ 0·0043	− 0·039	+ 19·819	− 0·078	− 0·02	1699
399	28 Virginis	+ 3·0968	+ 0·0074	− 0·001	+ 19·816	− 0·078	− 0·03	1700
400	S Urs. Maj., Var. 2...	+ 2·6569	− 0·0360	...	+ 19·774	− 0·073	...	...
401	35 Virginis	+ 3·0643	+ 0·0020	− 0·003	+ 19·728	− 0·089	+ 0·01	1708
402	... ...	+ 3·4572	+ 0·0611	...	+ 19·709	− 0·100	...	...
403	... ...	+ 3·3662	+ 0·0449	...	+ 19·696	− 0·099	...	...
404	... ...	+ 3·2791	+ 0·0313	...	+ 19·690	− 0·098	...	...
405	U Virginis, Var. 3 ...	+ 3·0439	+ 0·0012	...	+ 19·675	− 0·093	...	...
406	37 Virginis	+ 3·0550	+ 0·0025	− 0·004	+ 19·666	− 0·095	− 0·03	1714
407	Radcliffe 2922 ...	+ 2·5393	− 0·0344	...	+ 19·660	− 0·080	...	...
408	R. P. L. 98	+ 0·3737	+ 0·2200	...	+ 19·615	− 0·019	...	...
409	43 Virginis δ... ...	+ 3·0518	+ 0·0025	− 0·034	+ 19·595	− 0·103	+ 0·05	1723
410	12 Canum Venat. α...	+ 2·8374	− 0·0152	− 0·022	+ 19·578	− 0·098	− 0·07	1725
411	Taylor 5974	+ 3·4848	+ 0·0546	...	+ 19·531	− 0·122	...	...
412	44 Virginis κ... ...	+ 3·0889	+ 0·0064	− 0·004	+ 19·519	− 0·111	− 0·01	1729
413	... ...	+ 3·4959	+ 0·0549	...	+ 19·504	− 0·124	...	...
414	... ...	+ 3·3927	+ 0·0407	...	+ 19·501	− 0·123	...	...
415	51 Virginis θ ...	+ 3·1032	+ 0·0078	− 0·004	+ 19·293	− 0·132	+ 0·04	1747
416	... ...	+ 3·3320	+ 0·0282	...	+ 19·226	− 0·145	...	...
417	W Virginis, Var. 1 ...	+ 3·1824	+ 0·0142	...	+ 19·194	− 0·142	...	...
418	... ...	+ 3·5392	+ 0·0493	...	+ 19·161	− 0·159	...	...
419	58 Virginis	+ 3·1430	+ 0·0108	− 0·008	+ 19·105	− 0·147	− 0·03	1761
420	O. A. N. 13563 ...	+ 2·2540	− 0·0189	...	+ 18·969	− 0·114	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
421	67 Virginis α (*Spica*) ...	1·2	...	13	18	30·24	100	29	52·8	10	0·31
422	79 Urs. Maj. ζ (*Mizar*) 2nd.	4·2	...	13	18	49·37	34	24	51·9	1	0·33
423	Stone 7365	8·0	1	13	19	34·41	143	29	36·6	1	0·38
424	Radcliffe 3011	9·0	1	13	19	47·80	34	26	26·2	2	0·34
425	O. A. S. 12872	9·5	1	13	19	50·65	116	59	17·8	1	0·34
426	R. P. L. 103	7·3	...	13	19	51·13	4	34	52·0	3	0·38
427	80 Ursæ Majoris *g* ...	4·2	...	13	20	8·16	34	20	59·8	3	0·39
428	... ...	8·5	1	13	27	9·50	131	37	59·6	1	0·28
429	79 Virginis ζ	3·5	...	13	28	13·35	89	56	45·8	20	0·37
430	Bonn +0°·3090	9·7	1	13	35	27·09	89	28	18·2	1	0·37
431	Taylor 6363	8·0	1	13	37	13·68	147	36	14·3	1	0·38
432	Taylor 6366	8·0	1	13	37	29·67	151	48	49·8	1	0·38
433	O. A. S. 13100	9·0	1	13	37	43·96	117	0	28·4	1	0·34
434	... ...	9·4	1	13	38	44·76	122	49	48·8	2	0·37
435	86 Virginis	6·0	...	13	39	10·34	101	47	21·2	3	0·37
436	85 Urs. Maj. η (*Benetnasch*)	2·0	...	13	42	32·07	40	3	4·9	1	0·29
437	Taylor 6473	7·7	3	13	48	18·53	97	25	58·9	3	0·32
438	8 Böotis η	2·9	...	13	48	38·28	70	57	53·1	7	0·38
439	... ...	8·5	2	13	52	52·27	151	33	17·8	2	0·37
440	93 Virginis τ	4·4	...	13	55	11·05	87	50	23·6	6	0·37
441	W. B. E. XIII. 1023 ...	9·4	2	13	59	3·10	102	5	38·9	3	0·39
442	W. B. E. XIII. 1070 ...	8·7	3	14	1	35·34	101	57	41·2	3	0·39
443	R. P. L. 108	7·3	...	14	2	45·10	3	38	5·4	4	0·75
444	... ...	10·2	1	14	5	16·96	102	9	22·7	1	0·37
445	... ...	9·2	5	14	6	58·76	124	30	17·3	5	0·30
446	16 Böotis α (*Arcturus*) ...	0·0	...	14	9	52·20	70	9	18·9	3	0·37
447	... ...	10·3	2	14	11	58·13	124	19	0·2	2	0·32
448	... ...	9·7	1	14	12	1·70	124	30	6·2	1	0·32
449	W. B. E. XIV. 240 ...	9·1	5	14	14	59·13	102	36	2·5	5	0·36
450	... ...	...	...	14	15	51·60	122	14	5·1	1	0·32
451	2 Libræ	6·3	...	14	16	35·80	101	7	58·5	1	0·46
452	W. B. E. XIV. 280 ...	8·9	5	14	16	50·63	102	24	7·8	5	0·38
453	W. B. E. XIV. 315 ...	7·3	2	14	18	24·84	102	46	38·7	2	0·38
454	W. B. E. XIV. 360 ...	8·0	1	14	20	52·23	102	47	14·7	1	0·33
455	... ...	9·5	5	14	22	34·17	124	58	0·3	5	0·30

425.—Comparison star for Eunomia in 1863.
426.—Groombridge 2007.
430.—Comparison star for Isis in 1871.
433.—Comparison star for Atalanta in 1867.
441—442—444—449—452—453—454.—Comparison stars for Mars in 1873.
443.—Groombridge 2099.
445—455.—Comparison stars for Comet in 1872.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
421	67 Virginis α ...	+ 3·1554	+ 0·0116	− 0·004	+ 18·889	− 0·163	+ 0·02	1774
422	79 Urs. Maj. ζ—2nd...	+ 2·4141	− 0·0172	+ 0·015	+ 18·880	− 0·127	+ 0·03	1777
423	Stone 7365	+ 3·6869	+ 0·0587	...	+ 18·858	− 0·190	...	...
424	Radcliffe 3011 ...	+ 2·4070	− 0·0170	...	+ 18·851	− 0·127	...	...
425	O. A. S. 12872 ...	+ 3·3047	+ 0·0224	...	+ 18·850	− 0·172	...	...
426	R. P. L. 103	− 2·6243	+ 0·9575	...	+ 18·850	+ 0·123	...	...
427	80 Ursæ Majoris g ...	+ 2·4019	− 0·0169	+ 0·014	+ 18·841	− 0·128	+ 0·02	1779
428	... ...	+ 3·5133	+ 0·0379	...	+ 18·621	− 0·197	...	...
429	79 Virginis ζ... ...	+ 3·0717	+ 0·0064	− 0·021	+ 18·588	− 0·176	− 0·06	1789
430	Bonn + 0°. 3090 ...	+ 3·0672	+ 0·0065	...	+ 18·340	− 0·189	...	...
431	Taylor 6363	+ 3·9395	+ 0·0733	...	+ 18·276	− 0·243	...	...
432	Taylor 6366	+ 4·1018	+ 0·0909	...	+ 18·267	− 0·253	...	...
433	O. A. S. 13100 ...	+ 3·3541	+ 0·0231	...	+ 18·258	− 0·210	...	...
434	... ...	+ 3·4325	+ 0·0283	...	+ 18·221	− 0·216	...	...
435	86 Virginis	+ 3·1893	+ 0·0130	− 0·003	+ 18·206	− 0·202	− 0·01	1805
436	85 Ursæ Majoris η ...	+ 2·3841	− 0·0103	− 0·012	+ 18·081	− 0·159	− 0·01	1815
437	Taylor 6473	+ 3·1527	+ 0·0109	...	+ 17·856	− 0·217	...	...
438	8 Böotis η	+ 2·8616	− 0·0006	− 0·005	+ 17·843	− 0·199	+ 0·34	1821
439	... ...	+ 4·2392	+ 0·0920	...	+ 17·671	− 0·299	...	...
440	93 Virginis τ... ...	+ 3·0479	+ 0·0064	− 0·001	+ 17·574	− 0·222	+ 0·03	1829
441	W. B. E. XIII. 1023...	+ 3·2144	+ 0·0135	...	+ 17·409	− 0·240	...	...
442	W. B. E. XIII. 1070...	+ 3·2154	+ 0·0134	...	+ 17·298	− 0·245	...	...
443	R. P. L. 108	− 7·6693	+ 2·4356	...	+ 17·246	+ 0·564	...	...
444	. ...	+ 3·2218	+ 0·0136	...	+ 17·132	− 0·251	...	...
445	... ...	+ 3·5557	+ 0·0305	...	+ 17·055	− 0·280	...	...
446	16 Böotis α	+ 2·8131	+ 0·0004	− 0·080	+ 16·920	− 0·227	+ 1·98	1847
447	... ...	+ 3·5691	+ 0·0303	...	+ 16·820	− 0·290	...	...
448	... ...	+ 3·5728	+ 0·0304	...	+ 16·818	− 0·290	...	...
449	W. B. E. XIV. 240 ...	+ 3·2382	+ 0·0139	...	+ 16·676	− 0·270	...	...
450	... ...	+ 3·5433	+ 0·0281	...	+ 16·633	− 0·294	...	...
451	2 Libræ	+ 3·2200	+ 0·0132	− 0·003	+ 16·596	− 0·270	+ 0·06	1860
452	W. B. E. XIV. 280 ...	+ 3·2374	+ 0·0138	...	+ 16·585	− 0·273	...	...
453	W. B. E. XIV. 315 ...	+ 3·2444	+ 0·0141	...	+ 16·507	− 0·276	...	...
454	W. B. E. XIV. 360 ...	+ 3·2472	+ 0·0140	...	+ 16·384	− 0·280	...	...
455	... ...	+ 3·6169	+ 0·0309	...	+ 16·298	− 0·315	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
	456	W. B. E. XIV. 392 ...	9·5	4	14	22	41·22	103	15	21·6	4	0·32
	457	W. B. E. XIV. 410 ...	9·3	7	14	23	52·16	103	2	23·2	7	0·35
21·39	458	25 Böotis ρ	3·6	...	14	26	21·41	59	4	12·7	2	0·45
38·54	459	W. B. E. XIV. 458 ...	9·6	5	14	26	38·51	103	30	56·2	5	0·38
23·62	460	W. B. E. XIV. 512 ...	9·2	8	14	29	23·61	103	28	19·9	8	0·35
	461	α Centauri—1st	...	...	14	30	58·98	150	18	42·9	1	0·34
	462	Taylor 7734	7·6	5	14	31	10·79	125	2	31·9	5	0·30
	463	... ...	8·3	1	14	33	28·59	126	20	8·9	1	0·35
26·40	464	36 Böotis ε (*Mirac*) ...	2·6	...	14	39	26·40	62	23	20·2	4	0·45
	465	... ...	8·9	3	14	40	58·04	127	6	4·9	3	0·34
	466	... ...	9·3	1	14	42	58·72	129	9	6·2	1	0·35
51·36	467	9 Libræ a^2	3·0	...	14	43	51·32	105	30	46·1	7	0·42
	468	... ...	8·0	1	14	45	58·45	101	51	37·9	1	0·35
	469	7 Urs. Min. β, Var. 1 ...	2·1	...	14	51	6·31	15	19	32·3	1	0·35
	470	... ...	9·0	...	14	52	8·60	123	14	56·8	1	0·49
	471	O. A. N. 15004	8·0	1	14	54	10·51	39	23	13·3	1	0·47
18·71	472	Radcliffe 3306	7·6	3	14	56	18·71	42	13	11·7	3	0·39
	473	... ...	8·5	1	14	58	17·32	131	32	49·0	1	0·36
0·17	474	43 Böotis ψ	4·5	...	14	59	0·21	62	33	21·0	3	0·46
	475	W. B. E. XV. 86	9·8	1	15	7	0·18	98	3	54·4	1	0·37
	476	27 Libræ β	2·7	...	15	10	10·44	98	54	45·2	2	0·48
	477	Taylor 8048	6·5	1	15	12	42·84	68	57	40·8	2	0·37
30·59	478	W. B. E. XV. 290 ...	8·0	...	15	17	30·53	102	27	14·6	1	0·39
29·30	479	Lacaille 6377	7·0	1	15	19	29·27	130	12	49·6	1	0·37
	480	... ...	8·3	1	15	22	58·93	125	12	5·0	1	0·48
12·35	481	... ...	9·0	1	15	23	12·35	151	38	57·2	1	0·38
20·79	482	Radcliffe 3394	8·2	2	15	25	20·79	41	50	59·6	2	0·40
	483	... ...	8·1	2	15	25	34·42	122	45	32·5	2	0·50
	484	Lacaille 6421	8·0	1	15	26	12·96	122	44	25·9	1	0·47
59·28	485	Lalande 28320	8·5	1	15	26	59·22	103	48	1·8	1	0·38
18·67	486	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	18·67	62	51	24·0	4	0·46
55·14	487	W. B. E. XV. 557 ...	8·0	1	15	30	55·14	104	6	37·6	2	0·39
24·38	488	W. B. E. XV. 564 ...	7·4	2	15	31	24·38	104	5	45·7	2	0·41
26·37	489	W. B. E. XV. 675 ...	9·0	1	15	36	26·37	102	43	14·8	1	0·38
	490	24 Serpentis α	2·7	...	15	38	0·78	83	10	23·2	7	0·47

456—457—459—460.—Comparison stars for Mars in 1873.
462.—Comparison star for Comet in 1872.
471—472.—Comparison stars for Comet 2, 1861.
475—478—485—487—488.—Comparison stars for Comet 2, 1867.
482.—Comparison star for Comet 2, 1862.
489.—Comparison star for Sappho in 1864.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
456	W. B. E. XIV. 392 ...	+ 3·2564	− 0·0144	...	+ 16·292	− 0·284	...	...
457	W. B. E. XIV. 410 ...	+ 3·2541	+ 0·0143	...	+ 16·231	− 0·286	...	...
458	25 Böotis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·103	− 0·233	− 0·13	1869
459	W. B. E. XIV. 458 ...	+ 3·2640	+ 0·0145	...	+ 16·087	− 0·291	...	...
460	W. B. E. XIV. 512 ...	+ 3·2665	+ 0·0145	...	+ 15·943	− 0·296	...	...
461	α Centauri—1st ...	+ 4·5074	+ 0·0878	− 0·476	+ 15·857	− 0·410	− 0·81	Stone.
462	Taylor 7734	+ 3·6467	+ 0·0307	...	+ 15·848	− 0·333	...	...
463	... ...	+ 3·6827	+ 0·0319	...	+ 15·723	− 0·339	...	...
464	36 Böotis ε	+ 2·6240	− 0·0001	− 0·004	+ 15·394	− 0·252	− 0·00	1890
465	... ...	+ 3·7255	+ 0·0326	...	+ 15·307	− 0·357	...	...
466	... ...	+ 3·7828	+ 0·0350	...	+ 15·194	− 0·366	...	...
467	9 Libræ α^2	+ 3·3154	+ 0·0154	− 0·009	+ 15·143	− 0·324	+ 0·07	1894
468	... ...	+ 3·2582	+ 0·0135	...	+ 15·021	− 0·321	...	...
469	7 Urs. Maj. β, Var. 1.	− 0·2408	+ 0·1022	− 0·008	+ 14·721	+ 0·018	+ 0·01	1917
470	... ...	+ 3·6705	+ 0·0280	...	+ 14·659	− 0·370	...	...
471	O. A. N. 15004 ...	+ 1·9505	+ 0·0017	...	+ 14·536	− 0·202	...	...
472	Radcliffe 3306 ...	+ 2·0474	+ 0·0009	...	+ 14·406	− 0·213	...	...
473	... ...	+ 3·9037	+ 0·0371	...	+ 14·286	− 0·405	...	...
474	43 Böotis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·242	− 0·271	+ 0·01	1922
475	W. B. E. XV. 86 ...	+ 3·2102	+ 0·0114	...	+ 13·741	− 0·347	...	...
476	27 Libræ β	+ 3·2269	+ 0·0117	− 0·008	+ 13·537	− 0·353	+ 0·02	1934
477	Taylor 8048	+ 2·6889	+ 0·0028	...	+ 13·373	− 0·298	...	...
478	W. B. E. XV. 290 ...	+ 3·2963	+ 0·0131	...	+ 13·057	− 0·371	...	...
479	Lacaille 6377 ...	+ 3·9366	+ 0·0334	...	+ 12·924	− 0·444	...	...
480	... ...	+ 3·8026	+ 0·0276	...	+ 12·689	− 0·434	...	...
481	... ...	+ 4·9924	+ 0·0862	...	+ 12·675	− 0·567	...	...
482	Radcliffe 3394 ...	+ 1·9067	+ 0·0037	...	+ 12·529	− 0·222	...	...
483	... ...	+ 3·7445	+ 0·0252	...	+ 12·514	− 0·431	...	...
484	Lacaille 6421 ...	+ 3·7455	+ 0·0252	...	+ 12·470	− 0·433	...	...
485	Lalande 28320 ...	+ 3·3300	+ 0·0134	...	+ 12·417	− 0·387	...	...
486	5 Coronæ Bor. α ...	+ 2·5297	+ 0·0023	+ 0·009	+ 12·256	− 0·297	+ 0·09	1973
487	W. B. E. XV. 557 ...	+ 3·3396	+ 0·0134	...	+ 12·145	− 0·393	...	...
488	W. B. E. XV. 564 ...	+ 3·3397	+ 0·0134	...	+ 12·111	− 0·394	...	...
489	W. B. E. XV. 675 ...	+ 3·3167	+ 0·0126	...	+ 11·756	− 0·396	...	...
490	24 Serpentis α ...	+ 2·9419	+ 0·0062	+ 0·008	+ 11·645	− 0·354	+ 0·06	1990

461.—Proper motions from "*Stone's Cape Catalogue.*"

Mean Positions of Stars for 1873, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
					h.	*m.*	*s.*	°	′	″		
16·51	491	O. A. S. 14840	8·2	2	15	38	16·46·51	114	18	51·5	2	0·48
48·96	492	... ...	9·7	1	15	41	49·05	62	4	59·0	1	0·43
	493	36 Serpentis *b*	5·2	...	15	44	38·92	92	42	16·3	2	0·49
59·33	494	O. A. S. 14963	8·0	1	15	44	59·29·33	108	3	12·7	2	0·39
17·07	495	1 Herculis χ	4·5	...	15	48	17·10·07	47	11	30·9	2	0·44
	496	Lalande 28970	8·0	1	15	48	22·26	70	50	43·7	1	0·49
	497	Lalande 28980	6·0	1	15	49	24·67	104	27	22·0	1	0·49
48·36	498	W. B. E. XV. 923... ...	9·7	2	15	49	48·31·6	104	57	39·2	2	0·38
	499	49 Libræ	5·6	...	15	53	12·29	106	9	26·9	2	0·50
18·57	500	W. B. E. XV. 1044 ...	7·6	2	15	56	18·5$·7	95	28	45·1	2	0·40
23·13	501	51 Scorpii ξ	4·1	...	15	57	23·07·13	101	1	15·4	1	0·39
3·30	502	8 Scorpii β^1	5·2	...	15	58	3·28·30	109	27	20·9	3	0·49
	503	... ...	8·3	1	16	0	28·96	105	17	52·4	1	0·47
49·19	504	Lalande 29414	8·7	1	16	2	49·15·9	102	32	58·4	1	0·43
0·96	505	O. A. S. 15416	7·8	2	16	7	0·89·96	110	46	56·4	2	0·41
	506	1 Ophiuchi δ	2·8	...	16	7	41·49	93	21	56·6	4	0·49
	507	Lalande 29610	8·2	1	16	8	40·96	105	33	55·6	1	0·52
	508	O. A. S. 15504	9·0	1	16	11	52·45	106	42	46·7	1	0·57
47·33	509	O. A. S. 15613	8·0	2	16	17	47·27·33	113	9	54·4	2	0·45
	510	7 Ophiuchi χ	5·0	...	16	19	39·99	108	9	57·7	1	0·52
	511	21 Scorpii α (*Antares*) ...	1·1	...	16	21	37·42	116	8	51·1	3	0·52
	512	23 Scorpii τ	2·9	...	16	27	58·75	117	57	1·0	2	0·50
	513	13 Ophiuchi ζ	2·8	...	16	30	9·96	100	18	27·0	2	0·57
	514	Taylor 7723	5·9	1	16	34	13·76	107	29	40·0	1	0·52
	515	Taylor 7724	7·0	1	16	34	25·80	109	40	44·7	1	0·57
	516	40 Herculis ζ	3·1	...	16	36	29·97	58	9	57·4	3	0·53
	517	20 Ophiuchi	4·7	...	16	42	48·70	100	33	21·3	2	0·52
	518	... ...	8·6	4	16	46	51·54	136	38	29·0	4	0·51
	519	27 Ophiuchi κ	3·4	...	16	51	39·41	80	25	32·3	2	0·48
	520	29 Ophiuchi	6·8	...	16	54	25·72	108	41	47·4	1	0·46
	521	22 Ursæ Minoris ϵ ...	4·5	. .	16	59	3·61	7	45	26·6	4	0·04
	522	Taylor 7926	7·9	1	17	0	26·17	136	51	50·4	1	0·52
	523	35 Ophiuchi η	2·6	...	17	3	5·64	105	33	54·9	3	0·52
	524	... ...	8·0	1	17	4	40·99	59	7	56·8	1	0·48
	525	Lacaille 7168	7·9	1	17	5	12·69	128	8	25·4	1	0·57

491.—Comparison star for Iphigenia in 1873.
498—507.—Comparison stars for Donati's Comet of 1858.
494.—Comparison star for Sylvia in 1866.
496—500—505.—Comparison stars for Comet 2, 1862.
497—503—508.—Comparison stars for Sappho in 1864.
498—499.—Comparison stars for Asia in 1861.
504.—Comparison star for Sappho in 1871.
509.—Comparison star for Angelina in 1866.
518.—Comparison star for Ianthe in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
491	O. A. S. 14840 ...	+ 3·5644	+ 0·0182	...	+ 11·626	− 0·429	...	...
492	... ...	+ 2·4888	+ 0·0027	...	+ 11·372	− 0·304	...	...
493	36 Serpentis *b* ...	+ 3·1247	+ 0·0087	− 0·008	+ 11·166	− 0·395	+ 0·02	2004
494	O. A. S. 14963 ...	+ 3·4346	+ 0·0145	...	+ 11·143	− 0·421	...	...
495	1 Herculis χ	+ 2·0327	+ 0·0034	+ 0·037	+ 10·901	− 0·254	− 0·60	2021
496	Lalande 28970 ...	+ 2·6824	+ 0·0039	...	+ 10·895	− 0·333	...	...
497	Lalande 28980 ...	+ 3·3625	+ 0·0127	...	+ 10·819	− 0·417	...	...
498	W. B. E. XV. 923 ...	+ 3·3734	+ 0·0128	...	+ 10·790	− 0·419	...	...
499	49 Libræ	+ 3·4018	+ 0·0131	− 0·047	+ 10·537	− 0·427	+ 0·37	2026
500	W. B. E. XV. 1044 ...	+ 3·1822	+ 0·0092	...	+ 10·306	− 0·402	...	...
501	51 Scorpii ξ	+ 3·2962	+ 0·0109	− 0·007	+ 10·224	− 0·417	+ 0·02	2033
502	8 Scorpii β^1	+ 3·4791	+ 0·0142	− 0·003	+ 10·174	− 0·441	+ 0·03	2034
503	... ...	+ 3·3894	+ 0·0123	...	+ 9·990	− 0·432	...	...
504	Lalande 29414 ...	+ 3·3317	+ 0·0111	...	+ 9·813	− 0·428	...	...
505	O. A. S. 15416 ...	+ 3·5191	+ 0·0140	...	+ 9·491	− 0·456	...	...
506	1 Ophiuchi δ... ...	+ 3·1415	+ 0·0081	− 0·005	+ 9·439	− 0·408	+ 0·14	2065
507	Lalande 29610 ...	+ 3·4017	+ 0·0119	...	+ 9·362	− 0·442	...	...
508	O. A. S. 15504 ...	+ 3·4299	+ 0·0121	...	+ 9·114	− 0·449	...	...
509	O. A. S. 15613 ...	+ 3·5883	+ 0·0141	...	+ 8·650	− 0·476	...	...
510	7 Ophiuchi χ ...	+ 3·4695	+ 0·0119	− 0·004	+ 8·502	− 0·462	+ 0·02	2088
511	21 Scorpii α	+ 3·6690	+ 0·0150	− 0·002	+ 8·347	− 0·491	+ 0·03	2091
512	23 Scorpii τ	+ 3·7252	+ 0·0152	− 0·002	+ 7·838	− 0·502	+ 0·02	2103
513	13 Ophiuchi ζ ...	+ 3·2982	+ 0·0085	− 0·001	+ 7·336	− 0·451	− 0·04	2109
514	Taylor 7723	+ 3·4644	+ 0·0105	...	+ 7·332	− 0·473	...	...
515	Taylor 7724	+ 3·5174	+ 0·0112	...	+ 7·315	− 0·481	...	...
516	40 Herculis ζ ...	+ 2·2966	+ 0·0033	− 0·036	+ 7·146	− 0·316	− 0·41	2127
517	20 Ophiuchi	+ 3·3074	+ 0·0080	+ 0·005	+ 6·627	− 0·458	+ 0·08	2138
518	... ...	+ 4·4165	+ 0·0237	...	+ 6·292	− 0·615	...	...
519	27 Ophiuchi κ ...	+ 2·8566	+ 0·0044	− 0·021	+ 5·892	− 0·402	− 0·02	2156
520	29 Ophiuchi	+ 3·5062	+ 0·0089	− 0·005	+ 5·660	− 0·492	− 0·00	2158
521	22 Ursæ Minoris ϵ ...	− 6·3954	+ 0·2995	+ 0·009	+ 5·270	+ 0·898	+ 0·00	2201
522	Taylor 7926	+ 4·4512	+ 0·0203	...	+ 5·154	− 0·629	...	...
523	35 Ophiuchi η ...	+ 3·4332	+ 0·0074	+ 0·000	+ 4·928	− 0·487	− 0·10	2171
524	... ...	+ 2·2962	+ 0·0031	...	+ 4·794	− 0·327	...	...
525	Lacaille 7168 ...	+ 4·0922	+ 0·0139	...	+ 4·749	− 0·581	...	

Mean Positions of Stars for 1873, *January* 1*st*.

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
	526	64 Herculis α, Var. 1 ...	3·2	...	17	8	51·43	75	27	47·4	4	0·53
	527	42 Ophiuchi θ	3·4	...	17	14	12·69	114	52	12·9	2	0·57
	528	44 Ophiuchi b	4·5	...	17	18	36·78	114	3	22·3	1	0·48
	529	45 Ophiuchi d	4·4	...	17	19	14·68	119	44	59·2	1	0·49
6·59	530	Brisbane 6091	8·8	2	17	22	6·65·59	148	27	32·0	2	0·60
	531	23 Draconis β	3·0	...	17	27	33·73	87	36	14·0	1	0·60
47·29	532	... ...	8·8	1	17	27	47·65·29	150	36	3·8	1	0·61
	533	Taylor 8129	8·1	2	17	28	8·33	77	23	48·7	2	0·55
	534	55 Ophiuchi a	2·2	...	17	29	2·36	77	20	44·6	5	0·54
1·61	535	56 Serpentis o	4·4	...	17	34	16·641	102	48	18·5	1	0·60
	536	... ...	10·2	1	17	35	10·93	126	15	23·1	1	0·60
51·37	537	... ...	9·2	1	17	36	51·73·37	150	36	23·8	1	0·61
32·25	538	... ...	8·7	2	17	40	32·32·25	126	28	34·2	2	0·59
	539	86 Herculis μ	3·5	...	17	41	29·30	62	12	12·8	4	0·55
[41] 34·20	540	... ...	9·7	1	17	43	39·28	118	27	36·2	1	0·62
	541	Radcliffe 3765	8·6	1	17	43	34·79	17	32	7·5	1	0·60
	542	31 Draconis ψ^1	4·8	...	17	44	12·47	17	47	21·9	3	0·52
31·26	543	... ...	8·9	2	17	51	31·56·26	152	7	41·0	2	0·61
37·02	544	... ...	9·2	1	17	52	37·18·02	130	49	36·6	2	0·62
	545	33 Draconis γ	2·4	...	17	53	39·34	38	29	43·7	1	0·52
	546	9 Sagittarii	5·7	...	17	56	5·22	114	21	39·1	2	0·48
	547	Bonn +30°. 3133... ...	7·9	1	18	3	24·04	59	1	8·9	1	0·50
17·85	548	T. Herculis, Var. 4 ...	9·0	3	18	4	17·76·85	59	0	0·0	3	0·61
10·06	549	13 Sagittarii μ	4·1	...	18	6	10·0716	111	5	22·9	8	0·58
38·12	550	14 Sagittarii	5·9	...	18	6	38·12·12	111	44	40·8	1	0·62
35·51	551	Lacaille 7644	7·0	1	18	9	35·69·51	132	19	56·2	1	0·61
	552	23 Ursæ Minoris δ ...	4·3	...	18	13	18·36	3	23	34·6	4	0·28
	553	24 Ursæ Minoris	5·9	...	18	17	47·74	3	0	54·6	1	0·14
	554	22 Sagittarii λ	3·1	...	18	20	7·82	115	29	21·7	1	0·47
	555	Taylor 8509	4·7	...	18	21	57·59	104	38	39·9	2	0·56
	556	Taylor 8516	6·0	2	18	22	32·12	104	39	48·0	3	0·57
55·14	557	O. A. S. 18326	9·0	1	18	23	55·184	109	14	37·4	1	0·60
57·25	558	V Sagittarii, Var. 5 ...	8·8	1	18	23	57·95·25	108	20	53·9	1	0·62
54·52	559	Taylor 8527	7·0	...	18	23	59·52·2	108	29	14·0	1	0·67
24·44	560	U Sagittarii, Var. 4 ...	7·8	3	18	24	24·494	109	12	41·6	4	0·61

536.—Comparison star for Donati's Comet of 1858.
547.—Observed for map of T Herculis, Var. 4.
550.—Comparison star for D'Arrest's Comet of 1870.
557.—559.—Observed for map of U Sagittarii, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
526	64 Herculis α ...	+ 2·7341	+ 0·0035	− 0·002	+ 4·488	− 0·391	− 0·03	2183
527	42 Ophiuchi θ ...	+ 3·6795	+ 0·0080	− 0·002	+ 3·980	− 0·528	+ 0·04	2189
528	44 Ophiuchi b ...	+ 3·6594	+ 0·0073	− 0·003	+ 3·602	− 0·527	− 0·01	2198
529	45 Ophiuchi d ...	+ 3·8243	+ 0·0084	− 0·003	+ 3·547	− 0·551	− 0·15	2200
530	Brisbane 6091 ...	+ 5·2207	+ 0·0227	...	+ 3·300	− 0·753	...	...
531	23 Draconis β ...	+ 1·3537	+ 0·0052	− 0·002	+ 2·829	− 0·197	− 0·00	2221
532	... ...	+ 5·4216	+ 0·0219	...	+ 2·808	− 0·783	...	...
533	Taylor 8129	+ 2·7761	+ 0·0031	...	+ 2·779	− 0·402	...	...
534	55 Ophiuchi α ...	+ 2·7747	+ 0·0030	+ 0·007	+ 2·701	− 0·402	+ 0·22	2218
535	56 Serpentis o ...	+ 3·3742	+ 0·0041	− 0·006	+ 2·246	− 0·490	+ 0·04	2225
536	... ...	+ 4·0471	+ 0·0069	...	+ 2·168	− 0·587	...	...
537	... ...	+ 5·4335	+ 0·0162	...	+ 2·020	− 0·797	...	...
538	... ...	+ 4·0572	+ 0·0057	...	+ 1·701	− 0·591	...	...
539	86 Herculis μ ...	+ 2·3696	+ 0·0025	− 0·024	+ 1·618	− 0·346	+ 0·75	2237
540	... ...	+ 3·7949	+ 0·0045	...	+ 1·517	− 0·553	...	...
541	Radcliffe 3765 ...	− 1·1482	+ 0·0164	...	+ 1·435	+ 0·166	...	...
542	31 Draconis ψ^1 ...	− 1·0846	+ 0·0155	− 0·001	+ 1·381	+ 0·157	+ 0·27	2251
543	... ...	+ 5·5986	+ 0·0073	...	+ 0·742	− 0·816	...	...
544	... ...	+ 4·2267	+ 0·0037	...	+ 0·645	− 0·614	...	...
545	33 Draconis γ ...	+ 1·3917	+ 0·0030	− 0·002	+ 0·555	− 0·203	+ 0·03	2267
546	9 Sagittarii	+ 3·6775	+ 0·0022	− 0·003	+ 0·343	− 0·536	+ 0·01	2260
547	Bonn +30°.3133 ...	+ 2·2697	+ 0·0022	...	− 0·297	− 0·331	...	...
548	T Herculis, Var. 4 ...	+ 2·2691	+ 0·0021	...	− 0·375	− 0·331	...	...
549	13 Sagittarii μ ...	+ 3·5876	+ 0·0009	− 0·001	− 0·540	− 0·523	− 0·00	2284
550	14 Sagittarii ...	+ 3·6052	+ 0·0009	− 0·003	− 0·580	− 0·526	+ 0·02	2286
551	Lacaille 7644 ...	+ 4·2891	− 0·0010	...	− 0·839	− 0·625	...	...
552	23 Ursæ Minoris δ ...	− 19·4386	− 0·3885	+ 0·026	− 1·163	+ 2·832	− 0·04	2395
553	24 Ursæ Minoris ...	− 22·2319	− 0·6690	+ 0·067	− 1·556	+ 3·233	+ 0·02	2417
554	22 Sagittarii λ ...	+ 3·7071	− 0·0013	− 0·005	− 1·759	− 0·537	+ 0·20	2310
555	Taylor 8509	+ 3·4200	− 0·0003	...	− 1·919	− 0·496	...	...
556	Taylor 8516	+ 3·4203	− 0·0005	...	− 1·969	− 0·495	...	...
557	O. A. S. 18326 ...	+ 3·5364	− 0·0010	...	− 2·089	− 0·512	...	...
558	V Sagittarii, Var. 5...	+ 3·5132	− 0·0010	...	− 2·092	− 0·509	...	...
559	Taylor 8527	+ 3·5167	− 0·0010	...	− 2·092	− 0·509	...	...
560	U Sagittarii, Var. 4...	+ 3·5354	− 0·0011	...	− 2·131	− 0·512	...	...

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
561	3 Lyræ α (*Vega*)	0·2	...	18	32	38·27	51	20	0·2	5	0·59
562	... ...	8·9	1	18	35	18·49	118	34	10·1	1	0·52
563	... ...	9·8	1	18	35	40·24	137	15	50·0	1	0·62
564	R Scuti, Var. 1	7·0	1	18	40	42·12	95	50	21·5	2	0·61
565	O. A. S. 18773	8·8	4	18	44	59·19	118	17	42·2	4	0·63
566	10 Lyræ β...	3·6	...	18	45	28·36	56	47	0·8	4	0·61
567	32 Sagittarii ν^1	5·0	...	18	46	30·00	112	53	55·3	2	0·55
568	R. P. L. 131	6·6	...	18	56	7·15	3	27	15·2	5	0·15
569	17 Aquilæ ζ	3·1	...	18	59	34·36	76	19	25·7	4	0·59
570	R Aquilæ, Var. 3 ...	7·3	6	19	0	15·18	81	57	37·6	7	0·63
571	.·.	9·0	1	19	7	43·37	129	46	49·4	1	0·70
572	42 Sagittarii ψ	5·2	...	19	7	45·07	115	28	24·1	2	0·61
573	... ...	8·6	1	19	10	49·78	146	12	4·1	1	0·71
574	O. A. S. 19353	9·0	1	19	10	52·95	116	18	4·4	1	0·62
575	O. A. S. 19366	8·5	2	19	11	11·56	116	16	8·8	2	0·67
576	25 Aquilæ ω	5·1	...	19	11	51·27	78	37	53·7	4	0·62
577	45 Sagittarii ρ^2	6·1	...	19	14	26·35	108	32	30·1	2	0·61
578	30 Aquilæ δ	3·5	...	19	19	5·59	87	8	10·9	9	0·64
579	... ...	9·2	2	19	25	46·0	127	48	15·0	2	0·59
580	52 Sagittarii h^3	4·6	...	19	28	58·49	115	9	42·0	2	0·60
581	Lacaille 8173	8·2	1	19	32	19·41	143	14	21·8	1	0·70
582	O. A. S. 19847	8·5	5	19	32	54·79	108	10	51·2	5	0·71
583	13 Cygni θ	4·6	...	19	33	2·20	40	4	14·3	2	0·56
584	... ...	9·5	5	19	33	24·31	40	5	6·7	5	0·62
585	50 Aquilæ γ	2·8	...	19	40	13·30	79	41	40·3	4	0·67
586	S Vulpeculæ, Var. 2 ...	8·6	3	19	43	11·43	63	1	42·0	3	0·70
587	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	35·17	81	27	55·0	2	0·69
588	Lacaille 8249	7·8	2	19	44	39·20	122	17	59·4	2	0·66
589	57 Sagittarii	6.2	...	19	44	49·02	109	21	56·3	2	0·54
590	χ Cygni, Var. 2	5·9	5	19	45	41·09	57	24	21·9	5	0·73
591	60 Aquilæ β	4·0	...	19	49	4·46	83	54	31·2	5	0·65
592	λ Ursæ Minoris	6·5	...	19	51	18·21	1	4	26·4	1	0·69
593	... ...	9·1	1	19	56	22·99	151	50	12·8	2	0·65
694	Lacaille 8370	7·5	1	20	7	45·40	152	17	41·0	1	0·72
595	... ...	7·6	2	20	10	13·58	149	7	26·2	2	0·72

562—565.—Comparison stars for Amphitrite in 1863.
563.—Comparison star for Donati's Comet of 1858.
574—575.—Comparison stars for D'Arrest's Comet of 1870.
582.—Comparison star for Hestia in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
561	3 Lyræ α	+ 2·0132	+ 0·0016	+ 0·017	− 2·846	− 0·290	− 0·30	2341
562	... ...	+ 3·7916	− 0·0040	...	− 3·077	− 0·546	...	...
563	... ...	+ 4·5018	− 0·0103	...	− 3·108	− 0·648	...	...
564	R Scuti Var. 1 ...	+ 3·2068	− 0·0011	...	− 3·542	− 0·458	...	...
565	O. A. S. 18773 ...	+ 3·7781	− 0·0055	...	− 3·911	− 0·538	...	...
566	10 Lyræ β	+ 2·2139	+ 0·0015	− 0·001	− 3·946	− 0·315	− 0·02	2369
567	32 Sagittarii ν' ...	+ 3·6254	− 0·0043	− 0·003	− 4·041	− 0·516	+ 0·02	2364
568	R. P. L. 131	− 18·4164	− 1·5506	...	− 4·862	+ 2·607	...	...
569	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·154	− 0·387	+ 0·09	2405
570	R. Aquilæ, Var. 3 ...	+ 2·8900	− 0·0003	...	− 5·211	− 0·405	...	...
571	... ...	+ 4·1371	− 0·0144	...	− 5·840	− 0·576	...	...
572	42 Sagittarii ψ ...	+ 3·6815	− 0·0075	+ 0·000	− 5·843	− 0·510	+ 0·03	2418
573	... ...	+ 4·9748	− 0·0328	...	− 6·099	− 0·689	...	...
574	O. A. S. 19353 ...	+ 3·7016	− 0·0086	...	− 6·104	− 0·511	...	...
575	O. A. S. 19366 ...	+ 3·7005	− 0·0085	...	− 6·130	− 0·511	...	...
576	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·185	− 0·388	− 0·03	2432
577	45 Sagittarii ρ^2 ...	+ 3·4985	+ 0·0062	+ 0·006	− 6·399	− 0·481	+ 0·07	2436
578	30 Aquilæ δ	+ 3·0092	− 0·0018	+ 0·015	− 6·785	− 0·410	− 0·09	2451
579	... ...	+ 4·0376	− 0·0167	...	− 7·332	− 0·545	...	...
580	52 Sagittari h^2 ...	+ 3·6534	− 0·0102	+ 0·002	− 7·592	− 0·490	+ 0·01	2478
581	Lacaille 8173 ...	+ 4·7186	− 0·0358	...	− 7·861	− 0·631	...	...
582	O. A. S. 19847 ...	+ 3·4757	− 0·0077	...	− 7·909	− 0·463	...	...
583	13 Cygni θ	+ 1·6120	− 0·0016	− 0·003	− 7·920	− 0·213	− 0·24	2498
584	... ...	+ 1·6142	− 0·0015	...	− 7·953	− 0·213	...	...
585	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·493	− 0·373	− 0·01	2511
586	S Vulpeculæ, Var. 2...	+ 2·4597	+ 0·0011	...	− 8·726	− 0·319	...	...
587	53 Aquilæ α	+ 2·8920	− 0·0014	+ 0·035	− 8·838	− 0·374	− 0·38	2524
588	Lacaille 8249 ...	+ 3·8309	− 0·0160	...	− 8·842	− 0·498	...	...
589	57 Sagittarii ...	+ 3·4938	− 0·0094	− 0·001	− 8·856	− 0·454	+ 0·05	2522
590	χ Cygni Var. 2 ...	+ 2·3068	+ 0·0013	...	− 8·923	− 0·297	...	...
591	60 Aquilæ β	+ 2·9453	− 0·0020	+ 0·001	− 9·188	− 0·378	+ 0·47	2538
592	λ Ursæ Minoris ...	− 60·0192	− 29·7896	− 0·050	− 9·361	+ 7·745	+ 0·00	2795
593	... ...	+ 5·2544	− 0·0700	...	− 9·751	− 0·668	...	...
594	Lacaille 8370 ...	+ 5·2326	− 0·0772	...	− 10·609	− 0·643	...	...
595	... ...	+ 4·9569	− 0·0647	...	− 10·792	− 0·604	...	...

Mean Positions of Stars for 1873, *January* 1*st*.

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
					h.	*m.*	*s.*	°	′	″		
36·37	596	5 Capricorni a^1	4·5	...	20	10	36·39	102	53	55·8	2	0·61
0·33	597	6 Capricorni a^2	3·8	...	20	11	0·35	102	56	12·9	7	0·65
	598	... ...	8·0	2	20	11	46·03	106	15	5·5	2	0·69
	599	9 Capricorni β	3·4	...	20	13	52·65	105	10	51·7	1	0·73
	600	α Pavonis	2·1	...	20	15	35·39	147	8	23·2	1	0·60
	601	11 Capricorni ρ	5·0	...	20	21	36·87	108	13	53·5	11	0·70
	602	... ...	8·9	1	20	23	33·27	125	56	45·4	1	0·72
	603	... ...	8·3	2	20	23	50·17	124	55	16·6	2	0·74
54·31	604	... ...	8·8	2	20	26	54·32	150	16	31·4	2	0·64
	605	R. P. L. 143	6·7	...	20	28	26·14	5	16	41·0	3	0·36
	606	... ...	9·0	1	20	30	26·15	143	50	10·3	1	0·76
	607	... ...	8·0	1	20	31	36·61	149	53	33·3	1	0·70
	608	14 Capricorni τ^2	5·3	...	20	32	10·12	105	23	54·2	1	0·56
	609	S Capricorni, Var. 1 ...	8·9	1	20	34	28·38	109	30	28·6	1	0·72
6·09	610	50 Cygni α (*Deneb*) ...	1·5	...	20	37	6·05	45	10	21·2	8	0·69
	611	... ...	9·3	2	20	38	48·59	143	1	23·9	2	0·73
	612	W. B. E. XX. 1024 ...	9·3	1	20	41	23·16	105	22	20·1	1	0·74
	613	32 Vulpeculæ	5·1	...	20	49	8·81	62	25	28·1	10	0·72
	614	61 Cygni—1st	5·5	...	21	1	12·22	51	52	26·5	1	0·75
	615	... ...	9·3	2	21	1	44·02	119	58	16·0	2	0·72
	616	... ...	9·5	1	21	1	45·08	120	0	31·1	1	0·73
	617	64 Cygni ζ...	3·5	...	21	7	31·88	60	17	34·6	15	0·73
	618	32 Capricorni ι	4·4	...	21	15	10·37	107	22	26·2	3	0·69
	619	5 Cephei α...	2·6	...	21	15	32·70	27	57	6·6	1	0·81
	620	22 Aquarii β	3·1	...	21	24	52·34	96	7	43·0	14	0·75
	621	8 Cephei β	3·4	...	21	27	0·98	19	59	47·7	4	0·73
	622	... ...	8·6	1	21	30	22·13	98	23	1·6	1	0·70
	623	8 Pegasi ϵ...	2·4	...	21	37	56·88	80	42	21·8	4	0·76
37·37	624	μ Cephei, Var. 2	Var.	...	21	39	37·28	31	48	6·4	3	0·75
	625	48 Capricorni λ	5·4	...	21	39	41·82	101	57	3·2	2	0·72
	626	16 Pegasi	5·0	...	21	47	17·01	64	40	18·3	8	0·75
	627	ϵ Indi	5·2	...	21	53	38·25	147	18	24·8	3	0·70
	628	34 Aquarii α	3·2	...	21	59	15·55	90	56	9·0	2	0·78
	629	α Gruis	1·9	...	22	0	13·33	137	34	28·2	7	0·77
	630	... ...	8·0	4	22	0	29·33	115	0	38·4	4	0·74

598.—Comparison star for Hestia in 1865.
615—616.—Comparison stars for Sylvia in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
596	5 Capricorni α^1 ...	+ 3·3301	− 0·0084	− 0·001	− 10·820	− 0·406	− 0·03	2593
597	6 Capricorni α^2 ...	+ 3·3305	− 0·0084	+ 0·002	− 10·850	− 0·403	− 0·02	2595
598	... ...	+ 3·3993	− 0·0098	...	− 10·905	− 0·412	...	...
599	9 Capricorni β ...	+ 3·3749	− 0·0075	+ 0·001	− 11·059	− 0·406	− 0·02	2609
600	α Pavonis	+ 4·7901	− 0·0594	− 0·000	− 11·185	− 9·574	+ 0·10	Stone
601	11 Capricorni ρ ...	+ 3·4311	− 0·0115	− 0·003	− 11·618	− 0·403	+ 0·01	2626
602	... ...	+ 3·8576	− 0·0237	...	− 11·756	− 0·451	...	...
603	... ...	+ 3·8278	− 0·0229	...	− 11·776	− 0·447	...	...
604	... ...	+ 4·9491	− 0·0747	...	− 11·993	− 0·575	...	...
605	R. P. I. 113 ...	− 8·4697	− 1·2701	...	− 12·099	+ 0·990	...	...
606	... ...	+ 4·5213	− 0·0535	...	− 12·238	− 0·519	...	...
607	... ...	+ 4·8915	− 0·0742	...	− 12·320	− 0·560	...	...
608	14 Capricorni τ^2 ...	+ 3·3622	− 0·0105	− 0·001	− 12·359	− 0·382	+ 0·01	2652
609	S Capricorni, Var. L...	+ 3·4423	− 0·0128	...	− 12·516	− 0·385	...	...
610	50 Cygni α	+ 2·0435	+ 0·0021	− 0·003	− 12·695	− 0·226	− 0·00	2679
611	... ...	+ 4·4384	− 0·0530	...	− 12·811	− 0·495	...	...
612	W. B. E. XX. 1024 ...	+ 3·3524	− 0·0109	...	− 12·982	− 0·367	...	...
613	32 Vulpeculæ ...	+ 2·5556	+ 0·0026	− 0·002	− 13·494	− 0·270	+ 0·00	2709
614	61 Cygni—1st ...	+ 2·3341	+ 0·0044	+ 0·344	− 14·255	− 0·233	− 3·23	2744
615	... ...	+ 3·6132	− 0·0214	...	− 14·288	− 0·365	...	...
616	... .	+ 3·6140	− 0·0215	...	− 14·289	− 0·364	...	...
617	64 Cygni ζ	+ 2·5508	+ 0·0038	− 0·002	− 14·639	− 0·248	+ 0·07	2760
618	32 Capricorni ...	+ 3·3478	− 0·0130	− 0·000	− 15·088	− 0·316	− 0·01	2772
619	5 Cephei α	+ 1·4155	− 0·0071	+ 0·021	− 15·109	− 0·130	− 0·03	2786
620	22 Aquarii β	+ 3·1620	− 0·0071	− 0·001	− 15·633	− 0·282	+ 0·00	2797
621	8 Cephei β	+ 0·7979	− 0·0345	+ 0·001	− 15·751	− 0·065	+ 0·01	2811
622	... ...	+ 3·1919	− 0·0082	...	− 15·930	− 0·276	...	...
623	8 Pegasi ϵ	+ 2·9451	− 0·0005	+ 0·001	− 16·324	− 0·242	− 0·01	2835
624	μ Cephei, Var. 2 ...	+ 1·8327	+ 0·0039	...	− 16·409	− 0·147	...	...
625	48 Capricorni λ ...	+ 3·2349	− 0·0101	+ 0·001	− 16·413	− 0·265	+ 0·01	2844
626	16 Pegasi	+ 2·7259	+ 0·0052	− 0·001	− 16·785	− 0·210	+ 0·00	2864
627	ϵ Indi	+ 4·1638	− 0·0724	+ 0·480	− 17·080	− 0·313	+ 2·45	Stone
628	34 Aquarii α	+ 3·0832	− 0·0041	− 0·001	− 17·336	− 0·219	− 0·00	2890
629	α Gruis	+ 3·8024	− 0·0457	+ 0·011	− 17·378	− 0·270	+ 0·15	Stone
630	... ...	+ 3·3829	− 0·0183	...	− 17·389	− 0·239	...	...

600—629.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
631	... ...	10·0	1	22	2	30·68	114	57	12·0	1	0·76
632	38 Aquarii e^2	5·4	...	22	3	49·94	102	11	20·4	3	0·82
633	O. A. S. 22014	7·4	4	22	7	40·77	114	38	0·9	4	0·70
634	Lalande 43402	9·3	2	22	8	52·09	99	1	38·9	2	0·78
635	43 Aquarii θ	4·3	...	22	10	7·79	98	24	52·7	3	0·78
636	O. A. S. 22070	8·1	3	22	12	23·65	114	26	18·1	3	0·73
637	... ...	9·3	1	22	13	44·86	146	25	54·5	1	0·76
638	... ...	9·5	2	22	19	56·38	88	40	31·9	2	0·82
639	R. P. L. 150	5·4	...	22	23	4·97	4	32	0·4	1	0·20
640	R. P. L. 151	6·9	...	22	23	32·81	4	25	5·2	7	0·49
641	O. A. S. 22193	7·5	3	22	23	49·88	116	43	17·3	3	0·70
642	Taylor 10435	7·6	3	22	24	26·60	32	14	45·4	3	0·70
643	... ...	9·3	1	22	24	50·33	135	39	26·2	1	0·73
644	62 Aquarii η	4·2	...	22	28	49·77	90	46	16·9	3	0·83
645	... ...	9·1	1	22	34	49·37	155	28	31·5	1	0·85
646	42 Pegasi ζ	3·6	...	22	35	7·66	79	49	51·7	11	0·77
647	74 Aquarii...	5·8	...	22	46	47·28	102	17	28·8	1	0·67
648	O. A. S. 22487	8·7	4	22	48	17·51	114	38	41·0	4	0·71
649	O. A. S. 22497	8·2	3	22	49	22·00	114	49	39·9	3	0·72
650	S Aquarii, Var. 2	7·9	4	22	50	17·89	111	1	14·6	5	0·75
651	24 Pisc. Aust. α(*Fomalhaut*)	1·3	...	22	50	37·71	120	17	41·2	6	0·82
652	4 Piscium β	4·6	...	22	57	24·68	86	51	47·1	3	0·76
653	53 Pegasi β, Var. 1 ...	2·6	...	22	57	37·01	62	36	20·6	2	0·81
654	... ...	9·0	1	22	57	44·53	149	35	5·3	1	0·83
655	54 Pegasi α	2·6	...	22	58	26·06	75	28	39·8	8	0·75
656	6 Piscium γ	3·8	...	23	10	34·90	87	24	40·9	5	0·78
657	... ...	8·9	2	23	11	49·01	136	51	25·6	2	0·72
658	... ...	8·5	1	23	12	37·88	137	0	59·5	1	0·85
659	... ...	9·4	1	23	12	42·48	127	21	54·9	1	0·69
660	96 Aquarii	5·7	...	23	12	48·88	95	49	4·2	1	0·60
661	Groombridge 4040 ...	6·7	3	23	13	17·82	17	0	19·1	4	0·84
662	... ...	10·5	...	23	20	11·80	109	16	25·0	1	0·86
663	8 Piscium κ	5·0	...	23	20	25·31	89	26	22·2	5	0·82
664	10 Piscium θ	4·4	...	23	21	31·46	84	19	5·2	1	0·70
665	... ...	8·5	4	23	26	14·07	108	45	7·5	4	0·80

630—631—633—636—662—665.—Comparison stars for D'Arrest's Comet in 1870.
634.—Comparison star for Ansonia in 1862.
639.—Groombridge 3820.
640.—Groombridge 3824.
641—648—649.—Comparison stars for Isis in 1864.
642.—δ Cephei 1st, B. A. C. 7847.
647.—Comparison star for Mars in 1877.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
631	... ...	+ 3·3772	− 0·0155	...	− 17·477	− 0·233	...	...
632	38 Aquarii e^2 ...	+ 3·2123	− 0·0090	+ 0·001	− 17·534	− 0·220	− 0·01	2909
633	O. A. S. 22014 ...	+ 3·3607	− 0·0179	...	− 17·694	− 0·222	...	...
634	Lalande 43402 ...	+ 3·1712	− 0·0079	...	− 17·743	− 0·207	...	...
635	43 Aquarii θ ...	+ 3·1634	− 0·0075	+ 0·006	− 17·794	− 0·205	+ 0·02	2929
636	O. A. S. 22070 ...	+ 3·3471	− 0·0177	...	− 17·885	− 0·212	...	...
637	... ...	+ 3·9732	− 0·0677	...	− 17·937	− 0·253	...	...
638	... ...	+ 3·0591	− 0·0025	...	− 18·173	− 0·180	...	...
639	R. P. L. 150	− 3·8477	− 1·2043	+ 0·052	− 18·288	+ 0·238	− 0·04	2993
640	R. P. L. 151	− 3·9969	− 1·2707	+ 0·031	− 18·300	+ 0·246	− 0·02	...
641	O. A. S. 22193 ...	+ 3·3464	− 0·0193	...	− 18·315	− 0·191	...	...
642	Taylor 10435 ...	+ 2·2139	+ 0·0166	+ 0·004	− 18·336	− 0·123	− 0·01	Gr.
643	... ...	+ 3·6240	− 0·0412	...	− 18·350	− 0·206	...	...
644	62 Aquarii η	+ 3·0792	− 0·0031	+ 0·006	− 18·489	− 0·166	+ 0·11	2979
645	... ...	+ 4·1365	− 0·1067	...	− 18·685	− 0·213	...	...
646	42 Pegasi ζ	+ 2·9854	+ 0·0023	+ 0·004	− 18·695	− 0·149	+ 0·02	2992
647	74 Aquarii	+ 3·1637	− 0·0085	+ 0·000	− 19·040	− 0·137	+ 0·01	3021
648	O. A. S. 22487 ...	+ 3·2609	− 0·0166	...	− 19·080	− 0·138	...	...
649	O. A. S. 22497 ...	+ 3·2598	− 0·0168	...	− 19·110	− 0·136	...	...
650	S. Aquarii, Var. 2 ...	+ 3·2261	− 0·0140	...	− 19·134	− 0·134	...	...
651	24 Piscis Aust. α ...	+ 3·3050	− 0·0210	+ 0·023	− 19·143	− 0·135	+ 0·16	3032
652	4 Piscium β	+ 3·0524	+ 0·0001	− 0·000	− 19·309	− 0·112	+ 0·02	3046
653	53 Pegasi β, Var. 1 ...	+ 2·8860	+ 0·0117	+ 0·013	− 19·316	− 0·106	− 0·13	3047
654	... ...	+ 3·6834	− 0·0705	...	− 19·319	− 0·138	...	...
655	54 Pegasi α	+ 2·9803	+ 0·0056	+ 0·003	− 19·335	− 0·107	+ 0·03	3050
656	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·590	− 0·087	+ 0·02	3082
657	... ...	+ 3·3699	− 0·0382	...	− 19·613	− 0·098	...	...
658	... ...	+ 3·3667	− 0·0384	...	− 19·627	− 0·094	...	...
659	... ...	+ 3·2815	− 0·0263	...	− 19·629	− 0·087	...	...
660	96 Aquarii	+ 3·1001	− 0·0038	+ 0·011	− 19·631	− 0·085	− 0·00	3090
661	Groombridge 4040 ...	+ 2·1874	+ 0·0392	...	− 19·640	− 0·057	...	...
662	... ...	+ 3·1529	− 0·0111	...	− 19·753	− 0·071	...	...
663	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·757	− 0·069	+ 0·10	3116
664	10 Piscium θ ..	+ 3·0500	+ 0·0026	− 0·010	− 19·773	− 0·067	+ 0·05	3120
665	... .	+ 3·1388	− 0·0104	...	− 19·837	− 0·058	...	...

642.—Proper motions from *Greenwich Catalogue*, 1864.

Mean Positions of Stars for 1873, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
666	R. P. L. 158	5·6	...	23	27	50·54	3	23	33·5	2	0·29
667	... ...	9·3	4	23	28	9·82	108	24	45·7	4	0·84
668	17 Piscium ι	4·3	...	23	33	25·07	85	3	40·9	2	0·87
669	18 Piscium λ	4·7	...	23	35	33·94	88	55	8·5	2	0·72
670	... ...	8·5	1	23	35	41·00	148	39	58·7	1	0·72
671	R Aquarii, Var. 1 ...	9·4	4	23	37	14·92	105	59	16·6	4	0·79
672	19 Piscium	5·2	...	23	39	54·14	87	13	3·5	3	0·73
673	20 Piscium	5·7	...	23	41	24·76	93	28	4·1	3	0·81
674	δ Sculptoris	4·6	...	23	42	18·40	118	49	56·5	1	0·89
675	... ...	9·0	1	23	42	32·93	150	47	0·3	1	0·75
676	... ...	9·4	1	23	43	15·50	129	40	50·1	1	0·85
677	28 Piscium ω	4·2	...	23	52	47·38	83	50	23·3	3	0·84
678	29 Piscium	5·1	...	23	55	18·79	93	44	4·7	1	0·73
679	... ...	9·4	1	23	56	54·30	126	40	~~10·6~~ 22·9	1	0·85
680	Taylor 10997	9·2	1	23	58	31·16	126	43	29·9	1	0·86

22·9

666.—Groombridge 4101.
667.—Comparison star for D'Arrest's Comet in 1870.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
666	R. P. L. 158	− 0·0817	− 0.5241	+ 0·884	− 19·857	+ 0·011	− 0·01	Main
667	... ...	+ 3·1338	− 0·0101	...	− 19·861	− 0·054	...	...
668	17 Piscium ι	+ 3·0587	+ 0·0030	+ 0·023	− 19·920	− 0·042	+ 0·44	3148
669	18 Piscium λ... ...	+ 3·0696	+ 0·0011	− 0·011	− 19·940	− 0·039	+ 0·14	3153
670	... ...	+ 3·3049	− 0·0561	...	− 19·941	− 0·043	...	...
671	R Aquarii, Var. 1 ...	+ 3·1093	− 0·0081	...	− 19·955	− 0·036	...	...
672	19 Piscium	+ 3·0666	+ 0·0021	− 0·005	− 19·977	− 0·031	+ 0·02	3162
673	20 Piscium	+ 3·0787	− 0·0010	+ 0·005	− 19·988	− 0·028	− 0·00	3165
674	δ Soulptoris	+ 3·1289	− 0·0161	+ 0·009	− 19·994	− 0·026	+ 0·10	Stone
675	... ...	+ 3·2541	− 0·0589	...	− 19·996	− 0·028	...	...
676	... ...	+ 3·1532	− 0·0251	...	− 20·001	− 0·025	...	...
677	28 Piscium ω... ...	+ 3·0676	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191
678	29 Piscium	+ 3·0738	− 0·0004	− 0·000	− 20·051	0·000	+ 0·00	3196
679	... ...	+ 3·0857	− 0·0208	...	− 20·053	+ 0·003	...	...
680	Taylor 10997... ...	+ 3·0785	− 0·0206	...	− 20·054	+ 0·006	...	...

666.—Proper motions from Main's list.
674.—Proper motions from *Stone's Cape Catalogue.*

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RESULTS

OF

OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

MERIDIAN CIRCLE

AT THE

GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1874, 1875, AND 1876

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

C. MICHIE SMITH, B.Sc., F.R.A.S., F.R.S.E.

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CONTENTS

	Page
Introduction	v
Instrumental Corrections adopted in 1874	vi
Instrumental Corrections adopted in 1875	xi
Instrumental Corrections adopted in 1876	xvi
Corrections to the Nautical Almanac Stars in the three years	xix
Errata	xxiii
Separate Results of Observations in 1874	1
Mean Positions of Stars for 1874, January 1st	45
Separate Results of Observations in 1875	81
Mean Positions of Stars for 1875, January 1st	111
Separate Results of Observations in 1876...	131
Mean Positions of Stars for 1876, January 1st	149
Distribution List of Madras Astronomical Publications	165

INTRODUCTION.

The present volume deals with the Meridian Circle Observations made in the years 1874-75-76. The Observers were Moottoosawmy Pillay (M) and a new Observer P. Ragavachari (R) who is now First Observatory Assistant. A number of observations were also made by another observer (G) but the whole of these have had to be rejected. During these three years a comparatively small number of observations were made and I gather from the Annual Administration Reports that the reason for this was that the staff was chiefly employed in bringing up arrears of reductions. It seems, too, that the intention was to confine the Catalogue to the stars that had been observed up to that time. In 1877, however, it was resolved to increase the number of stars observed so that the next volume will deal with 9,637 observations and the volume for 1880-81-82 with 9,267 observations. A final volume will contain the 4,052 observations made between 1883 and 1887, when the work was closed.

During the years dealt with in this volume no change was made either in the instrument or in the methods of reduction.

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Jan. 1	M	− 5·8	− 0·4	− 0·11	+ 0·18	+ 0·04	+ 0·31	34 and 115 R. P. L.	
3	,,	− 7·8	− 0·4	− 0·04	+ 0·15	+ 0·01	+ 0·43	116 R. P. L. and η Tauri.	
5	,,	− 7·6	− 0·4	− 0·06	+ 0·14	− 0·02	+ 0·29	42 and 116 R. P. L.	
6	,,	− 7·4	− 0·4	− 0·07	+ 0·18	+ 0·01	+ 0·26		
7	,,	− 7·8	− 0·4	− 0·06	+ 0·15	− 0·02	+ 0·23	26 and 115 R. P. L.	
8	,,	− 8·4	− 0·4	− 0·11	+ 0·18	0·00	+ 0·36	111 R. P. L. and ε Tauri.	
9	,,	− 9·2	− 0·4	− 0·12	+ 0·14	− 0·02	+ 0·38		
10	,,	− 9·6	− 0·4	− 0·04	+ 0·15	+ 0·02	+ 0·41	111 R. P. L. and η Tauri.	
12	,,	− 10·3	− 0·4	− 0·09	+ 0·09	− 0·03	+ 0·36	45 and 116 R. P. L.	0·27
13	R	− 9·6	− 0·4	− 0·10	+ 0·13	+ 0·02	+ 0·44		0·29
14	M	− 11·7	− 0·4	+ 0·03	+ 0·14	+ 0·02	+ 0·58	34 and 111 R. P. L.	0·28
15	,,	− 11·1	− 0·4	+ 0·02	+ 0·07	− 0·01	+ 0·28	42 and 111 R. P. L.	
16	,,	− 12·0	− 0·4	+ 0·11	+ 0·12	+ 0·02	+ 0·29	42 and 111 R.P.L.	
17	,,	− 11·8	− 0·4	+ 0·18	+ 0·07	− 0·01	+ 0·32	42 R.P.L. & 2293 Redhill.	
19	,,	− 11·4	− 0·4	− 0·09	+ 0·09	− 0·03	+ 0·31	42 R.P.L. & 2293 Redhill.	
20	M & R	− 12·5	− 0·4	0·00	+ 0·12	− 0·03	+ 0·33	42 R.P.L. & 2293 Redhill.	
21	M	− 12·2	− 0·4	+ 0·06	+ 0·12	− 0·03	+ 0·29	42 R.P.L. & 2293 Redhill.	
22	,,	− 11·5	− 0·4	+ 0·05	+ 0·16	0·00	+ 0·45	34 R.P.L. and o^1 Eridani.	
23	,,	− 11·8	− 0·4	+ 0·13	+ 0·17	− 0·02	+ 0·28	42 R.P.L. & 2293 Redhill.	
24	,,	− 12·0	− 0·4	+ 0·17	+ 0·17	− 0·02	+ 0·29	42 R.P.L. & 2293 Redhill.	
26	,,	− 12·1	− 0·4	− 0·05	+ 0·16	− 0·03	+ 0·17	42 R. P. L. & 24 Urs. Min.	
27	R	− 12·2	− 0·4	− 0·07	+ 0·19	+ 0·01	+ 0·41	43 R.P.L. & 2293 Redhill.	
28	,,	− 11·8	− 0·4	+ 0·13	+ 0·16	− 0·01	+ 0·35	2293 Redhill and ι Aurigæ.	
29	,,	− 12·7	− 0·4	+ 0·12	+ 0·18	+ 0·01	+ 0·36	43 R.P.L. & 2293 Redhill.	
30	,,	− 12·9	− 0·4	+ 0·12	+ 0·20	+ 0·03	+ 0·37	43 R.P.L. & 2293 Redhill.	
31	,,	− 12·3	− 0·4	+ 0·15	+ 0·18	+ 0·01	+ 0·24	43 and 114 R. P. L.	
Feb. 2	,,	− 13·1	− 0·2	+ 0·09	+ 0·18	+ 0·01	+ 0·32	43 and 116 R. P. L.	
3	,,	− 13·1	− 0·2	+ 0·11	+ 0·17	0·00	+ 0·36	45 R. P. L. & 24 Urs. Min.	0·30
4	,,	− 12·7	− 0·2	+ 0·18	+ 0·18	0·00	+ 0·29	24 Urs. Min. and β Tauri.	
5	,,	− 12·9	− 0·2	+ 0·13	+ 0·17	0·00	+ 0·36	45 R. P. L. & 24 Urs. Min.	0·30
6	,,	− 12·7	− 0·2	+ 0·17	+ 0·19	+ 0·01	+ 0·38	45 R. P. L. & 24 Urs. Min.	0·31
7	,,	− 12·3	− 0·2	+ 0·25	+ 0·20	0·00	+ 0·28	49 R. P. L. & 24 Urs. Min.	
9	,,	− 13·0	− 0·2	+ 0·19	+ 0·18	0·00	+ 0·08	49 R. P. L. and 24 Cephei.	0·27
10	,,	− 12·6	− 0·2	+ 0·13	+ 0·19	0·00	+ 0·07	69 R.P.L. and 24 Cephei.	0·25
11	,,	− 13·9	− 0·2	+ 0·16	+ 0·20	− 0·01	− 0·01	24 Cephei and ι Aurigæ.	+0·22
12	,,	− 13·0	− 0·2	+ 0·25	+ 0·21	+ 0·01	− 0·03	24 Cephei and β Tauri.	+0·19
13	,,	− 13·2	− 0·2	+ 0·09	+ 0·19	− 0·01	0·00		+0·20
14	,,	− 13·6	− 0·2	+ 0·05	+ 0·21	0·00	+ 0·04		+0·21
16	,,	− 13·6	− 0·2	+ 0·01	+ 0·19	0·00	+ 0·11		+0·22
18	,,	− 13·4	− 0·2	+ 0·04	+ 0·18	− 0·01	+ 0·13		+0·23
19	,,	− 13·5	− 0·2	+ 0·05	+ 0·19	− 0·01	+ 0·21		+0·24
20	,,	− 13·3	− 0·2	0·00	+ 0·19	− 0·01	+ 0·25	60 and 150 R. P. L.	
21	,,	− 13·4	− 0·2	+ 0·02	+ 0·18	− 0·01	+ 0·16	72 and 150 R. P. L.	
23	,,	− 14·3	− 0·2	+ 0·07	+ 0·18	0·00	+ 0·26	72 and 143 R. P. L.	
24	,,	− 13·1	− 0·2	+ 0·10	+ 0·18	0·00	+ 0·27	72 and 143 R. P. L.	
25	,,	− 13·7	− 0·2	+ 0·05	+ 0·16	− 0·01	+ 0·13	69 and 151 R. P. L.	
26	,,	− 14·0	− 0·2	+ 0·03	+ 0·17	− 0·01	+ 0·18		
27	,,	− 13·7	− 0·2	+ 0·09	+ 0·17	0·00	+ 0·24		
28	,,	− 13·7	− 0·2	+ 0·14	+ 0·18	+ 0·01	+ 0·30	60 and 151 R. P. L.	
Mar. 2	M	− 14·2	...	+ 0·14	+ 0·19	+ 0·02	+ 0·13	70 R.P.L. and 24 Cephei.	+0·32
3	,,	− 15·0	...	+ 0·12	+ 0·20	+ 0·01	+ 0·32	70, 143 and 151 R. P. L.	
4	,,	− 15·1	− 0·4	+ 0·23	+ 0·17	− 0·02	+ 0·25	70 and 151 R. P. L. [Min.	
5	,,	− 14·7	− 0·4	+ 0·18	+ 0·13	− 0·05	+ 0·26	72,143, 153 R.P.L. & λ Urs.	
6	,,	− 16·1	− 0·4	− 0·01	+ 0·17	− 0·01	+ 0·30	79, 143 and 151 R. P. L. and λ Ursæ Minoris.	
7	R	− 13·5	− 0·4	+ 0·01	+ 0·21	+ 0·04	+ 0·22	79 R.P.L. & 24 Cephei.	+0·36

P. Ragavacharry taken as zero of Personal Equation from January 1st, instead of N. R. Pogson, assuming until further determinations. N. R. Pogson—0ˢ·30:—C. Ragoonathacharry—0ˢ·68; and Moottoosawmy Pillay —0ˢ·43.

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	*s*	*s*	*s*	*s*	
Mar. 9	M	− 14·0	− 0·4	+ 0·23	+ 0·31	+ 0·04	+ 0·36	79 and 153 R. P. L.
10	„	− 15·3	− 0·4	+ 0·21	+ 0·29	+ 0·03	+ 0·29	79 and 151 R. P. L.
11	„	− 15·4	− 0·4	+ 0·07	+ 0·22	− 0·01	+ 0·24	79 and 153 R. P. L.
12	R	− 13·9	− 0·4	+ 0·04	+ 0·23	0·00	+ 0·21	79 R.P.L. and 24 Cephei.
13	„	− 14·5	− 0·4	+ 0·16	+ 0·23	+ 0·01	+ 0·34	79 R.P.L. and 24 Cephei.
14	„	− 14·2	− 0·4	+ 0·19	+ 0·21	0·00	+ 0·22	87 and 153 R. P. L.
16	„	− 13·9	− 0·4	+ 0·16	+ 0·22	0·00	+ 0·29	87 and 143 R. P. L.
17	„	− 14·6	− 0·4	+ 0·16	+ 0·21	0·00	+ 0·30	87 and 143 R. P. L.
19	„	− 14·9	− 0·4	+ 0·15	+ 0·24	− 0·01	+ 0·25	87 and 153 R. P. L.
20	„	− 14·8	− 0·4	+ 0·16	+ 0·27	0·00	+ 0·29	87 and 153 R. P. L.
21	„	− 14·9	− 0·4	+ 0·13	+ 0·28	− 0·01	+ 0·25	10 and 90 R. P. L.
23	„	− 13·7	− 0·4	+ 0·06	+ 0·33	0·00	+ 0·29	90 and 153 R. P. L.
24	„	− 14·3	− 0·4	+ 0·08	+ 0·32	− 0·01	+ 0·30	
25	„	− 13·7	− 0·4	+ 0·09	+ 0·34	0·00	+ 0·31	
27	„	− 14·9	− 0·4	+ 0·11	+ 0·32	0·00	+ 0·32	
28	„	− 15·1	− 0·4	+ 0·14	+ 0·28	− 0·01	+ 0·32	
30	„	− 14·1	− 0·4	+ 0·23	+ 0·32	− 0·01	+ 0·33	153 R. P. L. and η Cancri.
31	„	− 13·5	− 0·4	+ 0·03	+ 0·33	− 0·01	+ 0·37	98 and 18 R. P. L.
Apl. 1	M	− 15·2	− 0·4	− 0·15	+ 0·42	+ 0·03	+ 0·38	
4	R	− 14·0	− 0·4	+ 0·17	+ 0·38	0·00	+ 0·42	98 and 153 R. P. L.
6	„	− 13·7	− 0·4	+ 0·20	+ 0·36	+ 0·01	+ 0·40	98 and 153 R. P. L.
8	„	− 13·1	− 0·4	+ 0·09	+ 0·32	0·00	+ 0·41	98 and 153 R. P. L.
9	„	− 14·6	− 0·4	+ 0·09	+ 0·31	+ 0·01	+ 0·36	
11	„	− 14·0	− 0·4	+ 0·15	+ 0·34	+ 0·01	+ 0·33	98 and 18 R. P. L.
13	„	− 14·8	− 0·4	+ 0·25	+ 0·37	+ 0·01	+ 0·34	98 and 18 R. P. L.
14	„	− 14·8	− 0·4	+ 0·25	+ 0·36	− 0·01	+ 0·33	98 R. P. L. and Polaris.
15	„	− 14·5	− 0·4	+ 0·27	+ 0·38	+ 0·02	+ 0·36	98 and 18 R. P. L.
16	„	− 14·1	− 0·4	+ 0·27	+ 0·38	+ 0·02	+ 0·35	98 and 18 R. P. L.
17	„	− 14·0	− 0·4	+ 0·17	+ 0·40	+ 0·01	+ 0·35	98 and 18 R. P. L.
20	M	− 15·8	− 0·4	+ 0·03	+ 0·43	− 0·01	+ 0·35	103 and 14 R. P. L.
21		− 15·1	− 0·4	+ 0·05	+ 0·49	+ 0·04	+ 0·38	101 and 10 R. P. L.
22	C R	− 13·6	− 0·4	+ 0·05	+ 0·47	+ 0·02	+ 0·38	
23	R	− 15·2	− 0·4	+ 0·04	+ 0·40	+ 0·03	+ 0·38	101 and 10 R. P. L.
24	„	− 15·2	− 0·4	+ 0·19	+ 0·44	+ 0·05	+ 0·43	101 and 10 R. P. L.
25	„	− 14·6	− 0·4	+ 0·23	+ 0·45	+ 0·03	+ 0·43	
27	„	− 13·6	− 0·4	+ 0·05	+ 0·48	+ 0·03	+ 0·44	101 and 10 R. P. L.
29	„	− 14·6	− 0·4	+ 0·10	+ 0·44	+ 0·01	+ 0·43	
30	„	− 16·2	− 0·4	+ 0·09	+ 0·44	+ 0·02	+ 0·42	
May 1	G	− 14·6	+ 0·3	+ 0·02	+ 0·44	0·00	+ 0·41	
2	„	− 18·7	+ 0·3	+ 0·31	+ 0·41	− 0·04	+ 0·40	
7	„	− 8·4	+ 0·3	− 0·25	+ 0·30	+ 0·05	+ 0·37	
8	„	− 7·9	+ 0·3	+ 0·03	+ 0·24	+ 0·01	+ 0·36	35 R. P. L. and β Leonis.
9	„	− 7·1	+ 0·3	+ 0·26	+ 0·26	+ 0·02	+ 0·17	
11	„	− 7·1	+ 0·3	− 0·19	+ 0·25	+ 0·05	− 0·20	111 and 14 R. P. L.
12	„	− 7·0	+ 0·3	+ 0·04	+ 0·29	+ 0·02	+ 0·40	114 and 33 R. P. L.
13	„	− 7·2	+ 0·3	+ 0·36	+ 0·35	+ 0·04	+ 0·26	
15	„	− 9·1	+ 0·3	+ 0·41	+ 0·31	− 0·01	− 0·01	108 and 33 R. P. L.
16	„	− 7·0	+ 0·3	+ 0·36	+ 0·36	− 0·02	+ 0·10	
18	„	− 6·3	+ 0·3	+ 0·26	+ 0·39	− 0·01	+ 0·33	90, 14 and 18 R. P. L.
19	R	− 6·6	− 0·6	+ 0·19	+ 0·39	+ 0·03	+ 0·43	101 and 10 R. P. L.
20	„	− 7·0	− 0·6	+ 0·15	+ 0·36	+ 0·00	+ 0·40	
21	„	− 7·2	− 0·6	+ 0·18	+ 0·39	+ 0·01	+ 0·38	101 and 10 R. P. L.
22	„	− 7·8	− 0·6	+ 0·07	+ 0·39	+ 0·01	+ 0·39	101 and 10 R. P. L.
23	„	− 7·6	− 0·6	+ 0·06	+ 0·38	+ 0·01	+ 0·38	
25	„	− 7·8	− 0·6	+ 0·22	+ 0·40	+ 0·02	+ 0·36	
26	„	− 8·0	− 0·6	+ 0·22	+ 0·40	+ 0·02	+ 0·35	

May 4-6 Gelone with 7·22 inches of rain

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
May 28	R	− 8·3	− 0·6	+ 0·15	+ 0·40	+ 0·02	+ 0·34	10 R. P. L. and η Bootis.
29	,,	− 8·8	− 0·6	+ 0·16	+ 0·37	+ 0·01	+ 0·23	101 and 10 R. P. L.
30	,,	− 9·0	− 0·6	+ 0·12	+ 0·39	+ 0·01	+ 0·23	90 and 12 R. P. L.
June 3	M	− 9·4	− 0·3	+ 0·05	+ 0·49	+ 0·04	+ 0·40	
4	,,	− 8·5	− 0·3	+ 0·09	+ 0·47	+ 0·05	+ 0·44	108, 12 and 18 R. P. L.
5	,,	− 8·8	− 0·3	+ 0·12	+ 0·46	+ 0·02	+ 0·46	108 and 12 R. P. L.
6	,,	− 9·1	− 0·3	+ 0·08	+ 0·48	+ 0·05	+ 0·45	
8	,,	− 7·1	− 0·3	+ 0·11	+ 0·42	+ 0·03	+ 0·43	108 and 18 R. P. L.
9	,,	− 6·9	− 0·3	+ 0·16	+ 0·39	0·00	+ 0·27	108 and 14 R. P. L.
11	,,	− 7·7	− 0·3	+ 0·11	+ 0·38	− 0·01	+ 0·29	
12	,,	− 6·5	− 0·3	+ 0·10	+ 0·41	0·00	+ 0·31	
17	,,	− 6·5	− 0·3	+ 0·17	+ 0·35	− 0·02	+ 0·37	
18	,,	− 6·4	− 0·3	+ 0·10	+ 0·39	− 0·02	+ 0·38	
19	,,	− 7·4	− 0·3	+ 0·03	+ 0·42	0·00	+ 0·40	
24	,,	− 8·4	− 0·3	+ 0·11	+ 0·47	+ 0·01	+ 0·46	
29	,,	− 9·1	− 0·3	+ 0·09	+ 0·44	+ 0·02	+ 0·52	Polaris and ε Bootis.
July 1	R	− 10·7	− 0·5	+ 0·09	+ 0·39	+ 0·01	+ 0·49	
2	,,	− 11·3	− 0·5	+ 0·13	+ 0·37	+ 0·02	+ 0·47	43 R. P. L. & 24 Urs. Min.
3	,,	− 10·9	− 0·5	+ 0·18	+ 0·38	+ 0·02	+ 0·46	
4	,,	− 10·7	− 0·5	+ 0·19	+ 0·37	+ 0·02	+ 0·46	
7	,,	− 11·9	− 0·5	+ 0·18	+ 0·36	+ 0·01	+ 0·43	
9	,,	− 11·0	− 0·5	+ 0·19	+ 0·37	− 0·01	+ 0·42	34 R. P. L. and ε Bootis.
14	,,	− 7·6	− 0·5	+ 0·12	+ 0·28	0·00	+ 0·49	131 R. P. L. & θ Ophiuchi.
15	,,	− 7·3	− 0·5	+ 0·16	+ 0·33	+ 0·01	+ 0·44	40 R. P. L. and δ Urs. Min.
16	,,	− 4·2	− 0·5	+ 0·14	+ 0·32	+ 0·01	+ 0·45	
17	,,	+ 1·1	− 0·5	+ 0·08	+ 0·32	+ 0·02	+ 0·47	
20	,,	+ 0·8	− 0·5	+ 0·14	+ 0·32	+ 0·02	+ 0·51	43 R. P. L. and ε Urs. Min.
21	,,	− 1·8	− 0·5	+ 0·07	+ 0·29	+ 0·01	+ 0·51	
22	,,	− 2·4	− 0·5	+ 0·01	+ 0·33	+ 0·04	+ 0·51	
29	,,	− 2·3	− 0·5	+ 0·20	+ 0·34	+ 0·05	+ 0·49	
30	,,	− 1·9	− 0·5	+ 0·12	+ 0·35	+ 0·04	+ 0·49	131 R. P. L. and 51 Cephei.
31	,,	− 2·4	− 0·5	0·00	+ 0·32	+ 0·03	+ 0·51	
Aug. 3	M	− 1·5	+ 0·5	+ 0·08	+ 0·46	+ 0·06	+ 0·55	δ Urs. Min. and 51 Cephei.
6	,,	− 2·2	+ 0·5	+ 0·04	+ 0·32	+ 0·03	+ 0·50	
7	,,	− 2·0	+ 0·5	+ 0·08	+ 0·40	+ 0·01	+ 0·49	
8	,,	− 2·1	+ 0·5	+ 0·15	+ 0·41	+ 0·03	+ 0·47	
11	,,	− 3·3	+ 0·5	+ 0·12	+ 0·37	+ 0·01	+ 0·42	λ Urs. Min. & δ Ophiuchi.
12	,,	− 4·2	+ 0·5	+ 0·07	+ 0·33	+ 0·01	+ 0·42	
13	,,	− 4·4	+ 0·5	+ 0·18	+ 0·46	+ 0·06	+ 0·42	
14	,,	− 3·8	+ 0·5	+ 0·20	+ 0·36	0·00	+ 0·42	
15	,,	− 4·0	+ 0·5	+ 0·10	+ 0·40	+ 0·01	+ 0·43	
18	,,	− 4·0	+ 0·5	+ 0·06	+ 0·40	+ 0·01	+ 0·43	
19	,,	− 3·1	+ 0·5	+ 0·09	+ 0·41	+ 0·02	+ 0·43	
21	,,	− 4·7	+ 0·5	+ 0·09	+ 0·31	− 0·02	+ 0·44	
22	,,	− 4·0	+ 0·5	+ 0·04	+ 0·36	0·00	+ 0·44	
24	,,	− 5·5	+ 0·5	+ 0·13	+ 0·39	+ 0·03	+ 0·44	70 R. P. L. and δ Urs. Min.
25	,,	− 4·6	+ 0·5	+ 0·06	+ 0·41	+ 0·02	+ 0·44	
26	,,	− 4·8	+ 0·5	− 0·02	+ 0·39	+ 0·02	+ 0·44	
27	,,	− 5·0	+ 0·5	+ 0·07	+ 0·44	+ 0·02	+ 0·43	
28	,,	− 7·2	+ 0·5	+ 0·13	+ 0·43	+ 0·03	+ 0·43	43 R. P. L. & ε Urs. Min.
29	,,	− 6·1	+ 0·5	+ 0·10	+ 0·40	+ 0·01	+ 0·42	43 R. P. L. & λ Urs. Min.
31	,,	− 5·9	+ 0·5	+ 0·02	+ 0·42	+ 0·02	+ 0·41	
Sep. 2	R	− 4·7	+ 0·1	+ 0·06	+ 0·33	+ 0·01	+ 0·49	131 and 60 R. P. L.
3	,,	− 5·6	+ 0·1	+ 0·11	+ 0·33	+ 0·02	+ 0·46	
4	,,	− 5·0	+ 0·1	+ 0·11	+ 0·34	+ 0·02	+ 0·44	δ Urs. Min. and 60 R. P. L.

+0·42
43
43
46
46
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49

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Sep. 5	R	− 5·1	+ 0·1	+ 0·07	+ 0·34	+ 0·02	+ 0·43	δ Urs. Min. and 60 R. P. L.	
7	„	− 3·3	+ 0·1	+ 0·09	+ 0·32	+ 0·03	+ 0·49	60 R. P. L. and ζ Aquilæ.	
10	„	− 2·4	+ 0·1	+ 0·10	+ 0·30	+ 0·01	+ 0·46	49 and 131 R. P. L.	
12	„	− 1·4	+ 0·1	+ 0·01	+ 0·27	0·00	+ 0·39	131 and 45 R. P. L.	+0·46
14	„	− 1·2	+ 0·1	+ 0·07	+ 0·27	+ 0·02	+ 0·50	131 and 69 R. P. L.	
15	„	− 1·0	+ 0·1	+ 0·04	+ 0·26	+ 0·01	+ 0·39	131 and 45 R. P. L.	+0·46
16	„	− 1·2	+ 0·1	+ 0·06	+ 0·27	+ 0·02	+ 0·45	131 and 49 R. P. L.	
17	„	− 2·1	+ 0·1	+ 0·06	+ 0·27	+ 0·03	+ 0·43	143 and 49 R. P. L.	
19	„	− 2·1	+ 0·1	+ 0·03	+ 0·26	+ 0·01	+ 0·49		
21	„	− 1·2	+ 0·1	− 0·16	+ 0·29	+ 0·03	+ 0·54	151 and 69 R. P. L.	
24	„	− 2·2	+ 0·1	− 0·34	+ 0·27	+ 0·01	+ 0·44		
26	„	− 2·6	+ 0·1	− 0·21	+ 0·30	+ 0·03	+ 0·35	143 and 49 R. P. L.	
28	„	− 2·3	+ 0·1	− 0·14	+ 0·27	+ 0·02	+ 0·42		
29	„	− 2·3	+ 0·1	− 0·07	+ 0·29	+ 0·03	+ 0·44		
30	„	− 2·8	+ 0·1	0·00	+ 0·28	+ 0·01	+ 0·46		
Oct. 3	M	− 4·6	0·0	− 0·09	+ 0·39	+ 0·06	+ 0·52	143 and 69 R. P. L.	
5	„	− 3·7	0·0	− 0·05	+ 0·40	+ 0·03	+ 0·47	150 and 49 R. P. L.	
6	„	− 4·6	0·0	− 0·09	+ 0·36	+ 0·02	+ 0·40	150 and 45 R. P. L.	+0·47
7	„	− 4·9	0·0	− 0·05	+ 0·38	+ 0·02	+ 0·50	153, 98 and 49 R. P. L.	
8	„	− 6·8	0·0	− 0·11	+ 0·33	− 0·01	+ 0·52		
9	„	− 5·4	0·0	− 0·12	+ 0·43	+ 0·04	+ 0·53		
10	„	− 5·4	0·0	− 0·07	+ 0·37	+ 0·02	+ 0·55	10 and 90 R. P. L.	
12	„	− 3·4	0·0	− 0·14	+ 0·40	+ 0·04	+ 0·58	10, 90 and 49 R. P. L.	
13	„	− 3·4	0·0	− 0·09	+ 0·42	+ 0·03	+ 0·58	150 R.P.L. & ρ Capricorni.	
14	„	− 5·0	0·0	− 0·10	+ 0·35	+ 0·02	+ 0·55	150 R.P.L. & ρ Capricorni.	
15	„	− 4·6	0·0	− 0·01	+ 0·39	+ 0·05	+ 0·49	10, 150 49, and 79 R. P. L.	
16	„	− 4·1	0·0	− 0·06	+ 0·38	+ 0·03	+ 0·56	10, 151 69, and 70 R. P. L.	
17	„	− 3·0	0·0	− 0·15	+ 0·39	+ 0·04	+ 0·59	151, 49 and 69 R. P. L.	
19	„	− 3·1	0·0	− 0·07	+ 0·34	+ 0·01	+ 0·58		
21	„	− 1·9	0·0	+ 0·04	+ 0·35	+ 0·02	+ 0·57		
22	„	− 2·2	0·0	+ 0·06	+ 0·32	+ 0·01	+ 0·56		
27	„	+ 2·3	0·0	− 0·27	+ 0·38	+ 0·04	+ 0·54		
28	„	+ 2·2	0·0	− 0·09	+ 0·39	+ 0·01	+ 0·53	26 and 108 R. P. L.	
29	„	+ 1·7	0·0	− 0·13	+ 0·34	− 0·01	+ 0·51	151, 10 and 79 R P. L.	
30	„	+ 1·6	0·0	− 0·21	+ 0·38	+ 0·01	+ 0·56	10 and 89 R. P. L.	
31	„	+ 1·5	0·0	− 0·16	+ 0·38	+ 0·03	+ 0·67	151, 14, 69 and 70 R. P. L.	+0·58
Nov. 2	R	+ 1·8	− 0·2	− 0·21	+ 0·28	+ 0·03	+ 0·74	14, 153 and 90 R. P. L.	+0·66
3	„	− 1·3	− 0·2	− 0·24	+ 0·19	+ 0·02	+ 0·49	10 and 79 R. P. L.	
4	M	− 1·4	− 0·2	− 0·33	+ 0·24	− 0·04	+ 0·45	10, 153, 69 and 70 R. P. L.	
5	„	− 2·4	− 0·2	− 0·33	+ 0·29	− 0·01	+ 0·53		
7	R	− 0·6	− 0·2	− 0·35	+ 0·24	+ 0·03	+ 0·69		
9	„	− 1·3	− 0·2	− 0·18	+ 0·28	+ 0·03	+ 0·84	14 R. P. L. and θ Aquarii.	+0·53
10	„	− 2·0	− 0·2	− 0·33	+ 0·22	− 0·01	+ 0·34	79 R. P. L. and η Aquarii.	
11	„	− 1·5	− 0·2	− 0·48	+ 0·22	+ 0·03	+ 0·49		
12	„	− 1·3	− 0·2	− 0·37	+ 0·24	+ 0·01	+ 0·64	14, 79, 90 and 168 R. P. L.	+0·52
13	„	− 3·0	− 0·2	− 0·36	+ 0·21	0·00	+ 0·55	14, 153, 79 and 90 R. P. L.	+0·49
14	„	− 2·5	− 0·2	− 0·36	+ 0·20	+ 0·02	+ 0·56	14, 79 and 90 R. P. L.	+0·48
17	„	− 2·9	− 0·2	− 0·34	+ 0·21	+ 0·02	+ 0·58	14 and 98 R. P. L.	+0·47
18	C R	− 3·1	− 0·2	− 0·62	+ 0·26	+ 0·07	+ 0·72	14 and 98 R. P. L.	+0·53
19	M	− 2·4	− 0·2	− 0·59	+ 0·30	+ 0·05	+ 0·69	14 and 98 R. P. L.	+0·50
20	R	− 2·7	− 0·2	− 0·65	+ 0·22	+ 0·04	+ 0·62	14, 87 and 90 R. P. L.	+0·50
21	„	− 2·4	− 0·2	− 0·96	+ 0·23	+ 0·03	+ 0·64	14, 87 and 90 R. P. L.	+0·51
25	„	− 2·1	− 0·2	− 1·05	+ 0·25	+ 0·04	+ 0·66		+0·51
27	„	− 0·5	− 0·2	− 1·04	+ 0·19	+ 0·04	+ 0·67		+0·51
28	„	− 0·7	− 0·2	− 1·05	+ 0·24	+ 0·05	+ 0·67		+0·50
30	„	+ 1·7	− 0·2	− 0·88	+ 0·28	+ 0·04	+ 0·68		+0·50

Instrumental Corrections adopted in 1874.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Dec. 1	R	+ 2·8	− 0·2	− 0·93	+ 0·27	+ 0·05	+ ~~0·68~~		+ 0·50
2	,,	+ 1·2	− 0·2	− 0·74	+ 0·24	+ 0·05	+ ~~0·69~~	14 and 99 R. P. L.	+ 0·50
3	,,	+ 0·7	− 0·2	− 0·66	+ 0·26	+ 0·05	+ 0·50	98 R. P. L. and γ Pegasi.	
4	,,	+ 1·3	− 0·2	− 1·03	+ 0·21	+ 0·04	+ 0·50	18 and 90 R. P. L.	
5	M	+ 1·6	− 0·9	− 1·06	+ 0·20	+ 0·03	+ 0·44	34 and 115 R. P. L.	
7	,,	− 0·1	− 0·9	− 0·88	+ 0·15	+ 0·01	+ 0·44		
8	,,	+ 1·0	− 0·9	− 0·91	+ 0·07	+ 0·02	+ 0·44		
13	,,	+ 1·5	− 0·9	− 0·83	+ 0·30	+ 0·03	+ 0·45		
15	,,	+ 4·6	− 0·9	− 0·90	+ 0·38	− 0·01	+ 0·46	26, 98 and 115 R. P. L.	
16	,,	+ 4·7	− 0·9	− 0·80	+ 0·39	+ 0·02	+ 0·44	26 and 98 R. P. L.	
17	,,	+ 5·1	− 0·9	− 0·81	+ 0·35	+ 0·02	+ 0·37	26 and 115 R. P. L.	
18	,,	+ 4·1	− 0·9	− 0·93	+ 0·36	+ 0·03	+ 0·37	26, 98 and 115 R. P. L.	
19	,,	+ 3·6	− 0·9	− 0·88	+ 0·32	+ 0·05	+ 0·43	26 and 98 R. P. L.	
22	R	+ 3·3	− 0·9	− 0·81	+ 0·19	+ 0·05	+ 0·46		
25	,,	+ 1·7	− 0·9	− 0·90	+ 0·05	− 0·05	+ 0·49	34 and 111 R. P. L.	
26	,,	+ 1·7	− 0·9	− 0·87	+ 0·14	+ 0·02	+ 0·40		
28	M	+ 0·6	− 0·9	− 0·75	+ 0·19	− 0·01	+ 0·23	35 R. P. L. and ε Urs. Min.	

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Jan. 2	R	− 2·9	− 0·9	− 0·75	+ 0·20	+ 0·04	+ 0·44	34 and 115 R. P. L.	
5	,,	− 2·7	− 0·9	− 0·80	+ 0·18	+ 0·02	+ 0·36	33 and 115 R. P. L.	
6	,,	− 4·4	− 0·9	− 0·79	+ 0·20	+ 0·04	+ 0·39	34 and 115 R. P. L.	
8	,,	− 2·7	− 0·9	− 0·75	+ 0·19	+ 0·04	+ 0·38	26 and 114 R. P. L.	
11	,,	− 4·9	− 0·9	− 0·75	+ 0·16	+ 0·03	+ 0·46	34 and 115 R. P. L.	
12	,,	− 3·9	− 0·9	− 0·69	+ 0·18	+ 0·04	+ 0·41		
13	,,	− 4·3	− 0·9	− 0·71	+ 0·16	+ 0·02	+ 0·37	35 and 114 R. P. L.	
14	,,	− 4·5	− 0·9	− 0·75	+ 0·17	+ 0·03	+ 0·39		
16	,,	− 6·6	− 0·9	− 0·75	+ 0·19	+ 0·04	+ 0·44	33 and 114 R. P. L.	
18	,,	− 8·7	− 0·9	− 0·73	+ 0·21	+ 0·04	+ 0·31	35 and 114 R. P. L.	
20	,,	− 7·3	− 0·9	− 0·64	+ 0·21	+ 0·03	+ 0·33	34 and 111 R. P. L.	
21	,,	− 8·6	− 0·9	− 0·56	+ 0·21	+ 0·04	+ 0·32		
22	,,	− 8·5	− 0·9	− 0·56	+ 0·21	+ 0·03	+ 0·30		
23	,,	− 9·6	− 0·9	− 0·56	+ 0·20	+ 0·02	+ 0·29	34 R. P. L. and o^1 Eridani.	
26	,,	− 9·6	− 0·9	− 0·59	+ 0·22	+ 0·01	+ 0·26		
27	,,	− 10·6	− 0·9	− 0·63	+ 0·22	+ 0·02	+ 0·25		
28	,,	− 10·1	− 0·9	− 0·64	+ 0·24	+ 0·04	+ 0·24	35 and 115 R. P. L.	
29	,,	− 9·5	− 0·9	− 0·58	+ 0·21	+ 0·04	+ ~~0·18~~		+0·24
30	,,	− 9·7	− 0·9	− 0·48	+ 0·24	+ 0·04	+ ~~0·12~~	42 R. P. L. and ϵ Urs. Min.	+0·24
Feb. 1	M	− 10·8	0·0	− 0·52	+ 0·35	+ 0·03	+ ~~0·20~~		+0·25
2	,,	− 11·4	0·0	− 0·62	+ 0·31	+ 0·04	+ 0·25	51 Cephei and 131 R. P. L.	
3	,,	− 11·7	0·0	− 0·59	+ 0·33	+ 0·08	+ 0·26	β Tauri and δ Urs. Min.	
4	,,	− 11·7	0·0	− 0·53	+ 0·28	+ 0·06	+ 0·24		
5	,,	− 11·1	0·0	− 0·51	+ 0·27	+ 0·03	+ 0·22	β Tauri and δ Urs. Min.	
6	,,	− 11·8	0·0	− 0·47	+ 0·26	+ 0·04	+ 0·22		
8	,,	− 11·0	0·0	− 0·53	+ 0·23	+ 0·02	+ 0·22	β Tauri and δ Urs. Min.	
9	,,	− 10·6	0·0	− 0·49	+ 0·26	+ 0·03	+ 0·24		
10	,,	− 11·9	0·0	− 0·49	+ 0·22	+ 0·01	+ 0·25		
11	,,	− 12·0	0·0	− 0·48	+ 0·21	+ 0·01	+ 0·27	51 Cephei & 24 Urs. Min.	
12	,,	− 13·0	0·0	− 0·48	+ 0·22	0·00	+ 0·24		
13	,,	− 12·9	0·0	− 0·36	+ 0·18	+ 0·01	+ 0·22	51 Cephei & 24 Urs. Min.	
15	,,	− 13·1	0·0	− 0·49	+ 0·20	− 0·01	+ 0·20		
16	,,	− 12·8	0·0	− 0·46	+ 0·25	+ 0·01	+ 0·18		
17	,,	− 12·8	0·0	− 0·42	+ 0·26	+ 0·01	+ 0·17	60 and 150 R. P. L.	+0·16
18	,,	− 11·9	0·0	− 0·40	+ 0·29	+ 0·02	+ ~~0·13~~		
19	,,	− 12·6	0·0	− 0·44	+ 0·29	0·00	+ ~~0·09~~	72 and 150 R. P. L.	+0·15
20	,,	− 12·9	0·0	− 0·50	+ 0·30	+ 0·01	+ 0·19	90 and 158 R. P. L.	
22	,,	− 12·7	0·0	− 0·38	+ 0·31	+ 0·03	+ 0·22		
23	,,	− 13·4	0·0	− 0·45	+ 0·30	+ 0·03	+ 0·23	90 and 158 R. P. L.	
24	,,	− 13·3	0·0	− 0·48	+ 0·29	+ 0·04	+ 0·22	90 and 153 R. P. L.	
25	,,	− 13·2	0·0	− 0·42	+ 0·30	+ 0·04	+ 0·22	90 and 153 R. P. L.	
26	,,	− 13·2	0·0	− 0·35	+ 0·29	+ 0·04	+ 0·21	90 and 153 R. P. L.	
27	,,	− 12·8	0·0	− 0·29	+ 0·30	+ 0·04	+ 0·28	Castor and Polaris.	
Mar. 1	R	− 11·9	− 0·2	− 0·42	+ 0·22	+ 0·03	+ 0·31		
2	,,	− 11·9	− 0·2	− 0·48	+ 0·22	+ 0·04	+ 0·32		
3	,,	− 12·7	− 0·2	− 0·52	+ 0·20	+ 0·03	+ ~~0·84~~	60 and 143 R. P. L.	+0·25
4	,,	− 13·2	− 0·2	− 0·54	+ 0·19	+ 0·02	+ 0·30		
5	,,	− 13·4	− 0·2	− 0·47	+ 0·24	+ 0·03	+ 0·26		
6	,,	− 12·8	− 0·2	− 0·44	+ 0·22	+ 0·02	+ 0·23	49 and 131 R. P. L.	
8	,,	− 12·7	− 0·2	− 0·58	+ 0·24	+ 0·01	+ 0·22		
9	,,	− 12·8	− 0·2	− 0·59	+ 0·26	+ 0·01	+ 0·21		
10	,,	− 12·4	− 0·2	− 0·53	+ 0·30	+ 0·01	+ 0·20	49 and 131 R. P. L.	
11	,,	− 13·4	− 0·2	− 0·55	+ 0·24	+ 0·01	+ 0·17		
12	,,	− 13·2	− 0·2	− 0·58	+ 0·30	+ 0·03	+ 0·14		
13	,,	− 12·5	− 0·2	− 0·52	+ 0·30	+ 0·01	+ 0·11	70 and 150 R. P. L.	
15	,,	− 13·2	− 0·2	− 0·44	+ 0·29	+ 0·01	+ 0·12		
16	,,	− 12·6	− 0·2	− 0·49	+ 0·27	0·00	+ 0·13		

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Mar. 17	R	− 12·6	− 0·2	− 0·52	+ 0·27	− 0·01	+ 0·14	69 and 151 R. P. L.	
18	,,	− 12·3	− 0·2	− 0·42	+ 0·26	0·00	+ 0·14		
19	,,	− 12·3	− 0·2	− 0·41	+ 0·26	+ 0·01	+ 0·14		
20	,,	− 11·8	− 0·2	− 0·50	+ 0·25	0·00	+ 0·14	70 and 18 R. P. L.	
22	,,	− 12·5	− 0·2	− 0·52	+ 0·27	+ 0·02	+ 0·10	*l* Leonis and 14 R. P. L.	+ 0·22
23	,,	− 12·6	− 0·2	− 0·53	+ 0·30	+ 0·03	+ 0·04	101 and 14 R. P. L.	+ 0·15
24	,,	− 13·3	− 0·2	− 0·59	+ 0·30	+ 0·05	+ 0·06	101 and 14 R. P. L.	+ 0·16
25	,,	− 12·9	− 0·2	− 0·55	+ 0·28	+ 0·03	+ 0·05		+ 0·16
26	,,	− 13·0	− 0·2	− 0·58	+ 0·29	+ 0·03	+ 0·04		+ 0·16
27	M	− 11·9	− 0·4	− 0·57	+ 0·45	+ 0·03	+ 0·03		+ 0·16
29	,,	− 12·2	− 0·4	− 0·40	+ 0·41	+ 0·01	0·00		+ 0·15
31	R	− 12·6	− 0·2	− 0·63	+ 0·31	+ 0·01	− 0·03		+ 0·15
Apl. 1	M	− 11·7	− 0·4	− 0·56	+ 0·46	+ 0·04	− 0·04		+ 0·15
2	,,	− 11·1	− 0·4	− 0·34	+ 0·42	+ 0·02	− 0·05		+ 0·15
3	,,	− 11·0	− 0·4	− 0·39	+ 0·40	+ 0·01	− 0·06	99 and 14 R. P. L.	+ 0·15
5	,,	− 10·5	− 0·4	− 0·51	+ 0·44	+ 0·03	+ 0·17		
6	,,	− 9·7	− 0·4	− 0·43	+ 0·43	+ 0·03	+ 0·28	108 and 26 R. P. L.	
7	,,	− 11·0	− 0·4	− 0·40	+ 0·40	+ 0·01	+ 0·05	92 R. P. L. and ψ Leonis.	+ 0·28
8	,,	− 11·1	− 0·4	− 0·50	+ 0·40	+ 0·04	+ 0·23	93 R. P. L. and Polaris.	
9	,,	− 11·5	− 0·4	− 0·41	+ 0·41	+ 0·03	+ 0·12	92 R. P. L. and Polaris.	+ 0·18
10	,,	− 11·5	− 0·4	− 0·33	+ 0·40	+ 0·02	+ 0·15	108 R. P. L. and δ Cratoris.	
12	,,	− 12·0	− 0·4	− 0·66	+ 0·38	0·00	+ 0·14	108 R. P. L. and Polaris.	
13	,,	− 11·3	− 0·4	− 0·71	+ 0·40	+ 0·01	+ 0·25	114 and 35 R. P. L.	
14	,,	− 10·9	− 0·4	− 0·60	+ 0·40	+ 0·01	+ 0·18	114 R. P. L. and δ Crateris.	
15	,,	− 11·0	− 0·4	− 0·59	+ 0·38	0·00	+ 0·18	114, 116, and 26 R. P. L.	
16	,,	− 10·9	− 0·4	− 0·59	+ 0·40	0·00	+ 0·10	116, 26, and 34 R. P. L.	
17	,,	− 10·3	− 0·4	− 0·50	+ 0·46	+ 0·05	+ 0·20	2293 Redhill; 114, 116 and 26 R. P. L.	
19	,,	− 11·2	− 0·4	− 0·56	+ 0·41	+ 0·02	− 0·03	2293 Redhill and 33 R.P.L.	+ 0·04
20	,,	− 10·8	− 0·4	− 0·57	+ 0·43	0·00	+ 0·08		
21	,,	− 11·7	− 0·4	− 0·56	+ 0·44	+ 0·04	+ 0·18	26, 34 and 111 R. P. L. and 2293 Redhill.	
22	,,	− 12·3	− 0·4	− 0·56	+ 0·43	+ 0·01	+ 0·13	114 R. P. L. and β Corvi.	
23	,,	− 10·8	− 0·4	− 0·43	+ 0·46	+ 0·03	+ 0·10	92, 114 and 34 R. P. L.	+ 0·18
24	,,	− 11·6	− 0·4	− 0·38	+ 0·45	− 0·01	+ 0·08	114 and 34 R. P. L.	
26	,,	− 12·1	− 0·4	− 0·57	+ 0·44	+ 0·01	+ 0·08	93 and 33 R. P. L.	
27	,,	− 11·8	− 0·4	− 0·62	+ 0·52	+ 0·04	+ 0·19	115 and 34 R. P. L.	
28	,,	− 12·0	− 0·4	− 0·55	+ 0·52	+ 0·03	+ 0·22		
29	,,	− 11·7	− 0·4	− 0·45	+ 0·54	+ 0·06	+ 0·24	93 and 34 R. P. L.	
30	,,	− 11·8	− 0·4	− 0·37	+ 0·48	+ 0·04	+ 0·18	33 and 93 R. P. L. and 2293 Redhill.	
May 1	R	− 10·6	0·0	− 0·38	+ 0·40	+ 0·02	+ 0·23	93 R. P. L. and η Bootis.	+ 0·24
3	,,	− 12·5	0·0	− 0·72	+ 0·40	+ 0·04	+ 0·04		+ 0·22
4	,,	− 12·0	0·0	+ 0·51	+ 0·44	+ 0·05	− 0·08	2293 Redhill and 33 R.P.L.	+ 0·21
5	,,	− 11·2	0·0	+ 0·82	+ 0·41	+ 0·02	+ 0·05	26, 33 and 92 R. P. L. and 2293 Redhill.	+ 0·20
6	,,	− 11·6	0·0	+ 0·87	+ 0·41	+ 0·03	+ 0·19	93, 114, 26 and 33 R. P. L.	
7	,,	− 11·6	0·0	+ 0·86	+ 0·44	+ 0·03	+ 0·20	93, 111, 114 and 26 R. P. L.	
8	,,	− 11·0	0·0	+ 0·85	+ 0·43	+ 0·04	+ 0·21	93, 111, 26 and 34 R. P. L.	
10	,,	− 10·5	0·0	+ 0·95	+ 0·47	+ 0·02	+ 0·26	93, 111 and 26 R. P. L.	
11	,,	− 11·1	0·0	+ 1·07	+ 0·44	+ 0·01	+ 0·23	93 R. P. L. and ζ Virginis	
12	,,	− 10·5	0·0	+ 1·02	+ 0·45	+ 0·02	+ 0·17	93 and 34 R. P. L. and 2293 Redhill.	
13	,,	− 9·7	0·0	+ 1·06	+ 0·46	+ 0·03	+ 0·20	93 and 34 R. P. L. and 2293 Redhill.	
14	,,	− 11·0	0·0	+ 1·16	+ 0·41	+ 0·03	+ 0·23		
15	,,	− 10·4	0·0	+ 1·15	+ 0·41	+ 0·04	+ 0·25	93, 34 and 40 R. P. L. and	
17	,,	− 11·3	0·0	+ 1·20	+ 0·43	+ 0·02	+ 0·24	2293 Redhill.	

May 3.—Stopped the clock before observing to lower the pendulum cylinder two divisions of the screw and placed the 30 grain weight upon the rate shelf.

May 4. 12*h*. 11*m*.—Changed the 30 grain weight on the weight shelf for the 20 grain weight.

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
May 18	R	− 10·4	0·0	+ 1·15	+ 0·42	+ 0·02	+ 0·23	114 and 40 R. P. L.	
19	,,	− 10·6	0·0	+ 1·03	+ 0·44	+ 0·02	+ 0·23	115 and 40 R. P. L.	
20	,,	− 10·8	0·0	+ 2·04	+ 0·43	+ 0·04	+ 0·25	115 and 40 R. P. L.	
21	,,	− 10·9	0·0	+ 0·16	+ 0·41	+ 0·02	+ 0·22	115 and 40 R. P. L.	
22	,,	− 10·7	0·0	+ 0·19	+ 0·41	+ 0·02	+ 0·22	115 and 43 R. P. L.	
24	,,	− 10·5	0·0	+ 0·22	+ 0·44	+ 0·01	+ 0·23	115 and 43 R. P. L.	
25	,,	− 9·5	0·0	+ 0·22	+ 0·43	+ 0·01	+ 0·26	ζ Herculis and 43 R. P. L.	
26	,,	− 10·2	0·0	+ 0·23	+ 0·46	+ 0·01	+ 0·28	115 and 42 R. P. L.	
28	,,	− 9·1	0·0	+ 0·18	+ 0·42	0·00	+ 0·26	115 and 42 R. P. L.	
31	,,	− 10·2	0·0	+ 0·19	+ 0·47	+ 0·03	+ 0·25		
June 1	M	− 10·0	− 1·0	+ 0·13	+ 0·52	+ 0·03	+ 0·24		
2	,,	− 9·5	− 1·0	+ 0·23	+ 0·57	+ 0·04	+ 0·23		
3	,,	− 10·3	− 1·0	+ 0·32	+ 0·51	− 0·01	+ 0·23	δ Urs. Min. and τ Virginis.	
4	,,	− 11·8	− 1·0	+ 0·14	+ 0·50	+ 0·03	+ 0·29	δ Urs. Min. and 51 Cephei.	
5	,,	− 10·9	− 1·0	+ 0·14	+ 0·53	+ 0·03	+ 0·29		
7	,,	− 10·8	− 1·0	+ 0·33	+ 0·51	+ 0·02	+ 0·27	115 R. P. L. and α Libræ.	
8	,,	− 11·2	− 1·0	+ 0·23	+ 0·50	+ 0·03	+ 0·32	115 and 43 R. P. L.	
9	,,	− 11·0	− 1·0	+ 0·18	+ 0·50	+ 0·01	+ 0·30	115 and 35 R. P. L.	
10	,,	− 11·5	− 1·0	+ 0·26	+ 0·50	0·00	+ 0·29		
11	,,	− 11·2	− 1·0	+ 0·32	+ 0·52	+ 0·01	+ 0·28		
12	,,	− 11·3	− 1·0	+ 0·32	+ 0·48	0·00	+ 0·28		
18	,,	− 12·3	− 1·0	+ 0·19	+ 0·49	+ 0·01	+ 0·23		
22	,,	− 11·4	− 1·0	+ 0·19	+ 0·55	+ 0·02	+ 0·20	δ Urs. Min. and 51 Cephei.	
24	,,	− 12·0	− 1·0	+ 0·31	+ 0·58	+ 0·03	+ 0·22	δ Urs. Min. and Antares.	
25	,,	− 11·2	− 1·0	+ 0·23	+ 0·53	+ 0·02	+ 0·26	δ Urs. Min and 51 Cephei.	
26	,,	− 11·3	− 1·0	+ 0·12	+ 0·58	+ 0·05	+ 0·30	δ Urs. Min. and 51 Cephei.	
29	,,	− 12·4	− 1·0	+ 0·19	+ 0·48	− 0·01	+ 0·20	δ Urs. Min. and 51 Cephei.	
30	,,	− 12·1	− 1·0	+ 0·29	+ 0·55	+ 0·04	+ 0·28	δ and 24 Ursæ Minoris, 51 Cephei, and 45 R. P. L.	+0·33
July 1	R	− 11·4	0·0	+ 0·26	+ 0·48	+ 0·03	+ 0·29		+0·33
2	,,	− 11·7	0·0	+ 0·15	+ 0·49	+ 0·03	+ 0·29	131 and 45 R. P. L.	+0·34
5	,,	− 11·9	0·0	+ 0·27	+ 0·51	+ 0·03	+ 0·28		+0·32
7	,,	− 11·6	0·0	+ 0·30	+ 0·47	+ 0·01	+ 0·28		+0·31
10	,,	− 12·1	0·0	+ 0·25	+ 0·41	+ 0·01	+ 0·27		+0·29
12	,,	− 11·4	0·0	+ 0·29	+ 0·42	+ 0·04	+ 0·27		+0·28
14	,,	− 12·3	0·0	+ 0·34	+ 0·42	+ 0·04	+ 0·26		+0·27
16	,,	− 11·5	0·0	+ 0·32	+ 0·44	+ 0·02	+ 0·26	131 and 35 R. P. L.	
20	,,	− 11·7	0·0	+ 0·34	+ 0·44	+ 0·02	+ 0·28		
22	,,	− 11·2	0·0	+ 0·35	+ 0·43	+ 0·02	+ 0·29		
23	,,	− 12·2	0·0	+ 0·36	+ 0·47	+ 0·02	+ 0·30		
28	,,	− 11·3	0·0	+ 0·30	+ 0·48	+ 0·02	+ 0·32		
29	,,	− 11·4	0·0	+ 0·23	+ 0·46	+ 0·02	+ 0·33		
30	,,	− 11·9	0·0	+ 0·26	+ 0·44	+ 0·02	+ 0·33		
Aug. 2	M	− 10·5	+ 0·5	+ 0·31	+ 0·50	+ 0·04	+ 0·34		
3	,,	− 11·8	+ 0·5	+ 0·31	+ 0·52	+ 0·05	+ 0·36		
5	,,	− 10·9	+ 0·5	+ 0·40	+ 0·50	+ 0·07	+ 0·37	24 Urs. Min. and γ Aquilæ.	
7	,,	− 9·5	+ 0·5	+ 0·37	+ 0·46	+ 0·05	+ 0·38		
9	,,	− 10·3	+ 0·5	+ 0·38	+ 0·44	+ 0·02	+ 0·39	24 Urs. Min. & 51 Cephei.	
10	,,	− 10·6	+ 0·5	+ 0·35	+ 0·49	+ 0·06	~~+ 0·64~~	24 Cephei and Altair.	+0·41
16	,,	− 7·4	+ 0·5	− 0·27	+ 0·43	+ 0·01	~~+ 0·37~~		+0·33
17	,,	− 6·4	+ 0·5	− 0·17	+ 0·40	0·00	+ 0·32	24 Urs. Min. & 51 Cephei.	
18	,,	− 7·1	+ 0·5	+ 0·02	+ 0·43	+ 0·03	~~+ 0·37~~	151, 45 and 70 R. P. L. and 51 Cephei.	+0·42
20	,,	− 6·7	+ 0·5	+ 0·10	+ 0·39	+ 0·02	~~+ 0·34~~	24 Urs. Min., 51 Cephei and 45 R. P. L.	+0·38
21	,,	− 6·4	+ 0·5	+ 0·09	+ 0·42	+ 0·03	+ 0·34	24 Urs. Min. & 51 Cephei.	
23	,,	− 7·6	+ 0·5	+ 0·15	+ 0·43	+ 0·04	~~+ 0·35~~	24 Urs. Min., 42 and 45 R. P. L. and 51 Cephei.	+0·38

May 20. 11*h.* 0*m.*—Changed the 20 grain weight on the weight shelf for the 10 grain weight by mistake: increasing the rate by 1ˢ·00 instead of diminishing it.
May 21. 7*h.* 3*m.*—Changed the 10 grain weight on the rate shelf for the 30 grain weight.
August 10th to 16th.—Heavy rain.

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.	
		″	″	s	s	s	s		
Aug. 24	M	− 7·8	+ 0·5	+ 0·04	+ 0·45	+ 0·05	+ 0·33	24 Urs. Min. & 51 Cephei.	
25	,,	− 7·7	+ 0·5	+ 0·05	+ 0·44	+ 0·06	+ 0·35		
26	,,	− 8·0	+ 0·5	+ 0·22	+ 0·42	+ 0·06	+ 0·36		
27	,,	− 7·3	+ 0·5	+ 0·19	+ 0·42	+ 0·04	+ 0·38		
30	,,	− 6·7	+ 0·5	+ 0·17	+ 0·40	+ 0·04	~~+ 0·37~~	24 Urs. Min., 24 Cephei, 42 and 45 R. P. L.	+ 0·42
Sep. 2	R	− 6·9	0·0	+ 0·19	+ 0·37	+ 0·04	+ 0·45		
6	,,	− 7·7	0·0	+ 0·10	+ 0·33	+ 0·03	+ 0·48	151 and 70 R. P. L.	
7	,,	− 7·6	0·0	+ 0·12	+ 0·35	+ 0·05	+ 0·46	150 and 72 R. P. L.	
9	,,	− 6·2	0·0	+ 0·18	+ 0·37	+ 0·02	+ 0·41	γ Aquilæ and 70 R. P. L.	
11	,,	− 8·5	0·0	+ 0·19	+ 0·39	+ 0·03	+ 0·50	150 and 72 R. P. L.	
14	,,	− 8·3	0·0	+ 0·15	+ 0·38	+ 0·04	+ 0·52		
20	,,	− 6·9	0·0	+ 0·35	+ 0·41	+ 0·05	+ 0·54		
21	,,	− 6·2	0·0	+ 0·27	+ 0·38	+ 0·07	+ 0·55	150 and 87 R. P. L.	
22	,,	− 5·6	0·0	+ 0·20	+ 0·43	+ 0·05	~~+ 0·55~~	24 Urs. Minoris, 24 Cephei and 87 R. P. L.	+ 0·46
23	,,	− 6·5	0·0	+ 0·18	+ 0·33	+ 0·05	+ 0·51		
24	,,	− 6·6	0·0	+ 0·25	+ 0·31	+ 0·03	+ 0·48		
25	,,	− 6·8	0·0	+ 0·32	+ 0·32	+ 0·03	+ 0·44	158 and 87 R. P. L.	
27	,,	− 5·3	0·0	+ 0·31	+ 0·29	+ 0·03	+ 0·51		
28	,,	− 6·1	0·0	+ 0·33	+ 0·35	+ 0·06	~~+ 0·55~~	24 Cephei and 87 R. P. L.	+ 0·40
29	,,	− 5·2	0·0	+ 0·28	+ 0·35	+ 0·04	+ 0·53		
Oct. 1	M	− 6·4	+ 0·2	+ 0·32	+ 0·37	+ 0·05	+ 0·49	18 R. P. L. and θ Aquarii.	
2	,,	− 6·4	+ 0·2	+ 0·30	+ 0·35	+ 0·06	+ 0·47		
4	,,	− 6·8	+ 0·2	+ 0·14	+ 0·37	+ 0·05	+ 0·44		
5	,,	− 6·9	+ 0·2	+ 0·15	+ 0·38	+ 0·05	+ 0·43		
6	,,	− 7·0	+ 0·2	+ 0·33	+ 0·43	+ 0·09	+ 0·41		
7	,,	− 6·2	+ 0·2	+ 0·44	+ 0·35	+ 0·01	+ 0·40	18, 60 and 87 R. P. L.	
11	,,	− 6·0	+ 0·2	+ 0·08	+ 0·33	+ 0·03	+ 0·45	18 and 99 R. P. L.	
12	,,	− 5·0	+ 0·2	+ 0·05	+ 0·33	+ 0·07	+ 0·45		
13	,,	− 4·5	+ 0·2	+ 0·12	+ 0·32	+ 0·06	+ 0·45	12 and 87 R. P. L.	
14	,,	− 5·4	+ 0·2	+ 0·20	+ 0·28	+ 0·06	+ 0·45		
16	,,	− 5·2	+ 0·2	+ 0·20	+ 0·24	+ 0·05	+ 0·46		
19	,,	− 4·8	+ 0·2	+ 0·21	+ 0·19	+ 0·01	+ 0·48		
22	,,	− 3·4	+ 0·2	+ 0·13	+ 0·33	+ 0·08	+ 0·49	12, 18 and 87 R. P. L.	
23	,,	− 2·1	+ 0·2	+ 0·06	+ 0·36	+ 0·06	+ 0·47	12, 18 and 90 R. P. L.	
25	,,	− 3·3	+ 0·2	+ 0·08	+ 0·39	+ 0·02	+ 0·41	12, 18 and 89 R. P. L.	
26	,,	− 3·6	+ 0·2	+ 0·07	+ 0·40	+ 0·04	~~+ 0·43~~	18 and 92 R. P. L.	+ 0·35
27	,,	− 3·4	+ 0·2	+ 0·01	+ 0·40	+ 0·02	+ 0·44	18 and 92 R. P. L.	+ 0·34
28	,,	− 4·3	+ 0·2	+ 0·05	+ 0·45	+ 0·02	+ 0·42	158, 92 and 93 R. P. L.	+ 0·36
29	,,	− 4·0	+ 0·2	+ 0·08	+ 0·39	+ 0·02	+ 0·38	158, 92, 93 and 103 R. P. L.	+ 0·35 0·38
30	,,	− 4·8	+ 0·2	+ 0·07	+ 0·41	+ 0·02	+ 0·43	158, 92 and 103 R. P. L.	+ 0·38
Nov. 1	R	− 3·9	0·0	− 0·15	+ 0·28	+ 0·01	+ 0·34	12, 93 and 103 R. P. L.	+ 0·30
2	,,	− 5·8	0·0	− 0·10	+ 0·33	+ 0·02	+ 0·30	14, 93 and 103 R. P. L.	+ 0·33
3	,,	− 5·6	0·0	− 0·05	+ 0·32	+ 0·03	+ 0·44	10 and 103 R. P. L.	+ 0·37
4	,,	− 5·4	0·0	− 0·03	+ 0·31	+ 0·04	+ 0·47	12 and 90 R. P. L.	
5	,,	− 6·4	0·0	− 0·03	+ 0·28	+ 0·03	+ 0·46		
6	,,	− 5·4	0·0	− 0·04	+ 0·31	+ 0·04	+ 0·46		
8	,,	− 5·5	0·0	+ 0·14	+ 0·33	+ 0·02	+ 0·45		
9	,,	− 5·1	0·0	+ 0·13	+ 0·35	+ 0·03	+ 0·45		
11	,,	− 5·8	0·0	+ 0·26	+ 0·36	+ 0·04	+ 0·44		
12	,,	− 6·2	0·0	+ 0·28	+ 0·37	+ 0·04	+ 0·43		
15	,,	− 2·9	0·0	+ 0·14	+ 0·32	+ 0·03	+ 0·42		
16	,,	− 1·4	0·0	+ 0·09	+ 0·30	+ 0·03	+ 0·42	18 and 98 R. P. L.	
17	,,	− 2·4	0·0	+ 0·07	+ 0·33	+ 0·04	~~+ 0·53~~		+ 0·41
19	,,	− 1·8	0·0	+ 0·19	+ 0·32	+ 0·04	~~+ 0·59~~	14 and 98 R. P. L.	+ 0·39
20	,,	− 3·0	0·0	+ 0·19	+ 0·35	+ 0·05	+ 0·56		
23	,,	− 0·5	0·0	+ 0·10	+ 0·33	+ 0·05	+ 0·46		

Instrumental Corrections adopted in 1875.

Date.	Obs.	Index.	Run in 5′	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining tars.
		″	″	s	s	s	s	
Nov. 25	R	− 1·2	0·0	+ 0·13	+ 0·32	+ 0·05	+ 0·40	12 and 93 R. P. L.
27	,,	− 1·0	0·0	+ 0·16	+ 0·32	+ 0·03	+ 0·49	34 and 111 R. P. L.
29	,,	− 2·1	0·0	+ 0·12	+ 0·26	+ 0·04	+ 0·58	
30	,,	− 3·3	0·0	+ 0·23	+ 0·28	+ 0·05	~~+ 0·63~~	14 and 98 R. P. L.
Dec. 1	M	− 2·9	− 0·6	+ 0·23	+ 0·30	+ 0·04	+ 0·52	
2	,,	− 3·7	− 0·6	+ 0·09	+ 0·29	+ 0·04	+ 0·40	
3	,,	...	...	...	+ 0·31	+ 0·04	+ 0·29	Polaris and ν Piscium.
8	,,	− 2·9	− 0·6	+ 0·18	+ 0·33	+ 0·07	+ 0·46	12 and 101 R. P. L.
10	,,	− 3·7	− 0·6	+ 0·15	+ 0·30	+ 0·02	+ 0·37	Polaris and θ^1 Ceti.
11	,,	− 3·6	− 0·6	+ 0·12	+ 0·35	+ 0·05	+ 0·41	
14	,,	− 4·4	− 0·6	+ 0·05	+ 0·28	+ 0·04	+ 0·54	33 R. P. L. and θ^1 Ceti.
18	,,	− 5·0	− 0·6	− 0·12	+ 0·36	+ 0·09	+ 0·49	26 and 108 R. P. L.
20	,,	− 5·6	− 0·6	+ 0·01	+ 0·37	+ 0·10	+ 0·50	33 and 114 R. P. L.
21	,,	− 5·1	− 0·6	+ 0·07	+ 0·30	+ 0·04	+ 0·36	26 and 111 R. P. L.
22	,,	− 4·6	− 0·6	+ 0·06	+ 0·31	+ 0·04	+ 0·36	26 and 111 R. P. L.
25	,,	− 5·9	− 0·6	+ 0·05	+ 0·26	+ 0·04	+ 0·37	33 and 114 R. P. L.

+0′43

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining stars.	
		″	″	s	s	s	s		
Jan. 4	R	− 7·8	0·0	+ 0·21	+ 0·31	+ 0·08	+ 0·49	34 and 111 R. P. L.	
5	,,	− 7·8	0·0	+ 0·18	+ 0·32	+ 0·05	+ 0·49		
6	,,	− 8·3	0·0	+ 0·20	+ 0·33	+ 0·05	+ 0·49		
7	,,	− 8·7	0·0	+ 0·18	+ 0·29	+ 0·03	+ 0·49		
8	,,	− 7·4	0·0	+ 0·10	+ 0·33	+ 0·06	+ 0·49	33 and 114 R. P. L.	
10	,,	− 8·3	0·0	− 0·01	+ 0·31	+ 0·04	+ 0·45		
11	,,	− 8·8	0·0	+ 0·10	+ 0·31	+ 0·05	+ 0·44		
12	,,	− 8·7	0·0	+ 0·20	+ 0·29	+ 0·05	+ 0·42		
13	,,	− 9·3	0·0	+ 0·14	+ 0·30	+ 0·04	+ 0·40	35 and 111 R. P. L.	
14	,,	− 9·3	0·0	+ 0·13	+ 0·29	+ 0·04	+ 0·48		
15	,,	− 9·1	0·0	+ 0·11	+ 0·30	+ 0·05	+ 0·57	34 and 115 R. P. L.	
17	,,	− 9·5	0·0	+ 0·17	+ 0·26	+ 0·05	+ 0·53		
18	,,	− 9·3	0·0	+ 0·06	+ 0·23	+ 0·04	+ 0·51		
19	,,	− 9·8	0·0	− 0·02	+ 0·21	+ 0·03	+ 0·50		
20	,,	− 10·4	0·0	+ 0·04	+ 0·20	+ 0·03	+ 0·48		
22	,,	− 10·3	0·0	+ 0·10	+ 0·22	+ 0·03	+ 0·44	40 and 116 R. P. L.	
28	,,	− 11·9	0·0	+ 0·12	+ 0·17	+ 0·02	+ 0·40	35 and 115 R. P. L.	
31	,,	− 11·7	0·0	+ 0·26	+ 0·19	+ 0·02	+ 0·41	40 and 116 R. P. L.	
Feb. 2	M	− 12·8	− 0·7	+ 0·31	+ 0·19	+ 0·01	+ 0·36	40 R. P. L. and δ Urs. Min.	
7	,,	− 13·7	− 0·7	+ 0·24	+ 0·14	− 0·04	+ 0·36	40 R. P. L. and ε Urs. Min.	
14	,,	− 14·2	− 0·7	+ 0·24	+ 0·20	+ 0·04	+ 0·43	40 R. P. L. and δ Urs. Min.	
21	,,	− 14·6	− 0·7	+ 0·16	+ 0·18	0·00	+ 0·31	51 Cephei and δ Urs. Min.	
28	,,	− 13·5	− 0·7	+ 0·12	+ 0·27	0·00	+ 0·27	51 Cephei and 131 R. P. L.	
Mar. 6	R	− 12·0	0·0	+ 0·13	+ 0·33	+ 0·03	+ 0·33	49 and 131 R. P. L.	
13	,,	− 12·2	0·0	+ 0·16	+ 0·35	+ 0·04	+ 0·37	60 and 143 R. P. L.	
20	,,	− 12·7	0·0	+ 0·14	+ 0·39	+ 0·05	+ 0·38	70 and 143 R. P. L.	
27	,,	− 11·5	0·0	− 0·04	+ 0·39	+ 0·02	+ 0·29	60 and 150 R. P. L.	
28	,,	− 11·4	0·0	+ 0·07	+ 0·43	+ 0·04	+ 0·32	72 and 150 R. P. L.	
29	,,	− 11·3	0·0	+ 0·18	+ 0·38	+ 0·02	+ 0·26	72 and 151 R. P. L.	
30	,,	− 11·9	0·0	+ 0·14	+ 0·39	+ 0·01	+ 0·22	69 and 151 R. P. L.	
31	,,	− 11·5	0·0	+ 0·11	+ 0·42	+ 0·01	+ 0·26		
Apl. 3	M	− 11·8	0·0	+ 0·09	+ 0·55	+ 0·07	+ 0·38	72 and 150 R. P. L.	
10	,,	− 11·0	0·0	+ 0·07	+ 0·62	+ 0·11	+ 0·35	89 R. P. L. and η Virginis.	
17	R	− 10·1	0·0	+ 0·01	+ 0·54	+ 0·07	+ 0·39	72 and 150 R. P. L.	
19	,,	− 10·8	0·0	+ 0·05	+ 0·58	+ 0·05	+ 0·35	70 and 151 R. P. L.	
20	,,	− 10·6	0·0	+ 0·09	+ 0·58	+ 0·08	+ 0·33		
21	,,	− 10·2	0·0	+ 0·12	+ 0·53	+ 0·05	+ 0·30	89 and 158 R. P. L.	
22	,,	− 10·1	0·0	+ 0·11	+ 0·52	+ 0·03	+ 0·30		
24	,,	− 10·4	0·0	+ 0·06	+ 0·54	+ 0·06	+ 0·32	98 and 158 R. P. L.	
27	,,	− 10·4	0·0	+ 0·16	+ 0·54	+ 0·05	+ 0·19	103 and 12 R. P. L.	0·32
28	,,	− 10·5	0·0	+ 0·14	+ 0·54	+ 0·05	+ 0·09	99 and 14 R. P. L.	0·31
29	,,	− 10·5	0·0	+ 0·08	+ 0·50	+ 0·06	+ 0·17	108 and 33 R. P. L.	0·29
May 1	,,	− 9·8	0·0	+ 0·10	+ 0·51	+ 0·06	+ 0·23	Arcturus & 33 R. P. L.	0·32
3	,,	− 11·0	0·0	+ 0·14	+ 0·52	+ 0·05	+ 0·18	103 and 12 R. P. L.	0·31
9	,,	− 10·7	0·0	+ 0·06	+ 0·52	+ 0·04	+ 0·06	108 and 14 R. P. L.	0·31
12	,,	− 10·6	0·0	+ 0·06	+ 0·52	+ 0·03	+ 0·17	114 and 33 R. P. L.	0·28
13	,,	− 10·2	0·0	+ 0·10	+ 0·55	+ 0·04	+ 0·21	108 and 18 R. P. L.	0·24
16	,,	− 10·7	0·0	+ 0·09	+ 0·58	+ 0·04	+ 0·14	103 and 12 R. P. L.	0·27
17	,,	− 10·5	0·0	+ 0·10	+ 0·56	+ 0·02	+ 0·36	111 and 35 R. P. L.	
20	,,	− 9·7	0·0	+ 0·17	+ 0·54	+ 0·02	+ 0·41	111 and 35 R. P. L.	
22	,,	− 10·0	0·0	+ 0·19	+ 0·52	+ 0·04	+ 0·37	114 and 35 R. P. L.	
25	,,	− 10·1	0·0	+ 0·18	+ 0·52	+ 0·03	+ 0·33	114 and 35 R. P. L.	
26	,,	− 9·4	0·0	+ 0·18	+ 0·52	+ 0·05	+ 0·35	114 and 35 R. P. L.	
June 2	M	− 8·9	0·0	+ 0·32	+ 0·61	+ 0·06	+ 0·39	114 R. P. L. and α Libræ.	

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5′.	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars
		″	″	s	s	s	s	
June 5	M	− 9·4	0·0	+ 0·28	+ 0·57	+ 0·03	+ 0·39	
6	,,	− 10·1	0·0	+ 0·26	+ 0·60	+ 0·03	+ 0·39	δ Ursæ Min. and α Libræ.
8	,,	− 8·9	0·0	+ 0·27	+ 0·59	+ 0·03	+ 0·38	
14	,,	− 9·3	0·0	+ 0·28	+ 0·60	+ 0·04	+ 0·37	114 and 35 R. P. L.
17	,,	− 7·2	0·0	+ 0·26	+ 0·59	+ 0·05	+ 0·40	131 and 43 R. P. L.
27	,,	− 7·0	0·0	+ 0·26	+ 0·60	− 0·04	+ 0·42	
July 5	R	− 6·7	0·0	+ 0·25	+ 0·49	+ 0·02	+ 0·44	
10	,,	− 9·2	0·0	+ 0·06	+ 0·47	+ 0·03	+ 0·45	
19	,,	− 7·7	0·0	− 0·06	+ 0·47	+ 0·05	+ 0·47	
20	,,	− 8·1	0·0	− 0·09	+ 0·44	+ 0·03	+ 0·47	
22	,,	− 7·8	0·0	− 0·14	+ 0·40	+ 0·03	+ 0·47	
29	,,	− 7·2	0·0	+ 0·03	+ 0·45	+ 0·05	+ 0·49	24 Urs. Min. & 42 R. P. L.
31	,,	− 6·5		+ 0·06	+ 0·43	+ 0·04	+ 0·52	131 and 42 R. P. L.
Aug. 1	,,	− 7·9	0·0	+ 0·07	+ 0·46	+ 0·04	+ 0·53	δ Urs. Min. & 42 R. P. L.
2	,,	− 7·7	0·0	+ 0·09	+ 0·42	+ 0·05	+ 0·51	
3	,,	− 7·2	0·0	+ 0·08	+ 0·44	+ 0·05	+ 0 50	24 Urs. Min. & 42 R. P. L.
4	,,	− 7·8	0·0	+ 0·06	+ 0·42	+ 0·04	+ 0·48	24 Urs. Min. & 42 R. P. L.
7	,,	− 8·3	0·0	+ 0·07	+ 0·43	+ 0·06	+ 0·48	
10	,,	− 7·8	0·0	+ 0·12	+ 0·43	+ 0·05	+ 0·48	
12	,,	− 7·5	0·0	+ 0·07	+ 0·42	+ 0·04	+ 0·48	
14	,,	− 7·3	0·0	− 0·12	+ 0·41	+ 0·04	+ 0·49	
15	,,	− 6·8	0·0	− 0·16	+ 0 43	+ 0·06	+ 0·49	
16	,,	− 7·7	0·0	− 0·15	+ 0·40	+ 0·03	+ 0·49	
18	,,	− 8·0	0·0	− 0·07	+ 0·40	+ 0·04	+ 0·49	
21	M	− 8·9	0·0	+ 0·02	+ 0·48	+ 0 03	+ 0·49	131 and 45 R. P. L. 0·57
26	R	− 7·9	0·0	− 0·13	+ 0·40	+ 0·04	+ 0·50	δ Urs. Min. and 42 R. P. L.
Sep. 6	,,	− 7·1	− 0·1	− 0·18	+ 0·38	+ 0·05	+ 0·47	143 and 70 R. P. L.
7	,,	− 5·7	− 0·1	− 0·17	+ 0 38	+ 0·05	+ 0·46	
14	,,	− 6·7	− 0·1	− 0·10	+ 0·41	+ 0·05	+ 0·37	143 and 60 R. P. L.
18	,,	− 6·5	− 0·1	− 0·11	+ 0·38	+ 0·05	+ 0·41	143 and 49 R. P. L.
19	,,	− 7·8	− 0·1	− 0·01	+ 0·40	+ 0·05	+ 0·43	
20	,,	− 8·2	− 0·1	+ 0·08	+ 0·40	+ 0·04	+ 0·45	
22	,,	− 7·0	− 0·1	+ 0·16	+ 0·39	+ 0·04	+ 0·49	
23	,,	− 7·7	− 0·1	+ 0·17	+ 0·41	+ 0·05	+ 0·51	
25	,,	− 8·7	− 0·1	+ 0·08	+ 0·38	+ 0·04	+ 0·55	151 and 72 R. P. L.
26	,,	− 7·5	− 0·1	+ 0·08	+ 0·39	+ 0·05	+ 0·53	
29	,,	− 6·2	− 0·1	+ 0·14	+ 0·46	+ 0·04	+ 0·49	150 and 70 R. P. L.
Oct. 2	,,	− 6·7	− 0·1	+ 0·07	+ 0 38	+ 0·05	+ 0·51	
4	,,	− 6·6	− 0·1	+ 0·09	+ 0·38	+ 0·05	+ 0·52	
5	,,	− 7·5	− 0·1	+ 0·08	+ 0·37	+ 0·04	+ 0·53	
7	,,	− 6·8	− 0·1	− 0·08	+ 0·33	+ 0·04	+ 0·54	
10	,,	− 6·7	− 0·1	− 0·16	+ 0·36	+ 0·04	+ 0·55	151 and 69 R. P. L.
13	,,	− 7·6	− 0·1	− 0·01	+ 0·38	+ 0·05	+ 0·46	150 and 70 R. P. L.
18	M	− 8·6	+ 0·6	+ 0·27	+ 0·38	+ 0·04	+ 0·40	
19	,,	− 8·3	+ 0·6	+ 0·22	+ 0·33	0·00	+ 0·39	143 and 60 R. P. L.
21	,,	− 9·8	+ 0·6	− 0·07	+ 0·33	+ 0·01	+ 0·38	143 and 60 R. P. L.
23	,,	− 9·1	+ 0·6	− 0·19	+ 0·34	+ 0·04	+ 0·42	143 and 60 R. P. L.
24	,,	− 9·3	+ 0·6	− 0·18	+ 0·35	+ 0·04	+ 0·41	
30	,,	− 9·4	+ 0·6	− 0·08	+ 0·26	+ 0·03	+ 0·38	143 and 60 R. P. L.
31	,,	− 9·3	+ 0·6	− 0·06	+ 0·26	+ 0·04	+ 0·44	150 and 60 R. P. L.
Nov. 1	,,	− 9·1	− 0·1	− 0·04	+ 0·26	+ 0·04	+ 0·47	
2	,,	− 9·8	− 0·1	− 0·01	+ 0·28	+ 0·06	+ 0·50	150 and 70 R. P. L.
3	,,	− 10·0	− 0·1	+ 0·01	+ 0·28	+ 0·06	+ 0·47	150 and 70 R. P. L.
14	,,	− 5·3	− 0·1	− 0·23	+ 0·23	+ 0 07	+ 0·47	Polaris and β Ceti.
27	,,	− 8·8	− 0·1	− 0·27	+ 0·13	+ 0·01	+ 0·45	2 Urs. Min. and 89 R. P. L.

Heavy rain between November 3rd and 14th.

Instrumental Corrections adopted in 1876.

Date.	Obs.	Index.	Run in 5′	Clock Rate.	Inclination.	Collimation.	Meridian.	Determining Stars.
		″	″	s	s	s	s	
Nov. 30	M	− 8·7	− 0·1	− 0·15	+ 0·18	+ 0·05	+ 0·51	Polaris and 116 R. P. L.
Dec. 1	,,	− 6·8	− 0·3	− 0·32	+ 0·17	+ 0·02	+ 0·52	
4	,,	− 6·8	− 0·3	− 0·65	+ 0·15	+ 0·04	+ 0 54	34 and 115 R. P. L.
5	,,	− 6·9	− 0·3	− 0·54	+ 0·09	+ 0·02	+ 0·54	
6	,,	− 7·0	− 0·3	− 0·47	+ 0·10	+ 0·02	+ 0·54	34 and 115 R. P. L.
7	,,	− 7·3	− 0·3	− 0·42	+ 0·10	+ 0·02	+ 0·53	
8	,,	− 8·0	− 0·3	− 0·48	+ 0·10	+ 0·03	+ 0·52	
9	,,	− 7·6	− 0·3	− 0·52	+ 0·08	+ 0·02	+ 0·51	
11	,,	− 8·5	− 0·3	− 0·35	+ 0·06	+ 0·01	+ 0·50	
12	,,	− 8·7	− 0·3	− 0·37	+ 0·10	+ 0·01	+ 0·49	34 and 116 R. P. L.
13	,,	− 8·8	− 0·3	− 0·43	+ 0·08	− 0·01	+ 0·46	
14	,,	− 8·9	− 0·3	− 0·42	+ 0·08	0·00	+ 0·43	
15	,,	− 9·1	− 0·3	− 0·34	+ 0·09	+ 0·01	+ 0·40	2 Urs. Min. & 111 R. P. L.
16	,,	− 10·2	− 0·3	− 0·36	+ 0·12	+ 0·05	~~+ 0·48~~	
18	,,	− 9·7	− 0·3	− 0·36	+ 0·08	+ 0·01	~~+ 0·53~~	2 Urs. Min. & 103 R. P. L.
19	,,	− 10·5	− 0·3	− 0·31	+ 0·08	+ 0·02	~~+ 0·54~~	
20	,,	− 11·1	− 0·3	− 0·32	+ 0·06	+ 0·01	+ 0·50	2 Urs. Min. & 111 R. P. L.
21	,,	− 11·7	− 0·3	− 0·36	+ 0·05	+ 0·04	+ 0·47	2 Urs. Min. and θ^1 Ceti.
22	,,	− 10·9	− 0·3	− 0·36	+ 0·06	+ 0·01	+ 0·44	
29	R	− 10·2	− 0·3	− 0·28	+ 0·12	+ 0·04	+ 0·46	35 R. P. L. and δ Urs. Min.

0·42
0·46
0·48

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	m.	° ′		s	″		s	″		s	″
α Andromedæ ...	0	2	61 36	2	− 0·08	− 0·8	1	+ 0·18	+ 1·0	...	.....	.....
γ Pegasi (*Algenib*) ...	0	7	75 31	4	+ 0·01	− 1·2	2	− 0·03	+ 0·6	...	.....	.....
12 Ceti	0	24	94 39	7	0·00	− 1·3	1	− 0·04	− 0·4	1	+ 0·07	+ 0·4
β Ceti	0	37	108 40	6	− 0·03	− 0·9	3	+ 0·11	− 0·7	1	+ 0·01	− 0·5
ε Piscium	0	56	82 47	7	− 0·04	− 1·3	3	− 0·03	− 1·0	1	− 0·01	0·0
α Urs. Min. (*Polaris*) .	1	13	1 21	1	− 0·55	+ 2·6	2	+ 0·94	+ 3·7	...	.....	.....
θ Ceti	1	18	98 50	1	+ 0·06	− 2·1	6	+ 0·04	− 0·1	3	− 0·04	− 0·4
η Piscium	1	25	75 18	1	− 0·02	+ 1·7	6	− 0·01	+ 1·0	...	.....	.....
ν Piscium	1	35	85 9	3	+ 0·13	− 2·2	4	− 0·02	− 1·8	7	+ 0·05	− 1·8
β Arietis	1	48	69 48	7	+ 0·03	− 1·2	6	+ 0·01	− 0·8	2	− 0·01	+ 0·2
α Arietis	2	0	67 8	...	.....	.....	5	− 0·06	− 0·3	6	0·00	+ 1·9
67 Ceti	2	11	97 0	1	+ 0·12	− 1·5	5	+ 0·01	− 1·0	6	+ 0·03	− 0·2
ξ^2 Ceti	2	22	82 6	3	+ 0·03	− 1·5	5	+ 0·01	− 1·8	6	− 0·03	− 0·4
γ^2 Ceti	2	37	87 18	17	− 0·01	− 2·7	6	+ 0·01	− 3·1	10	+ 0·02	− 1·1
α Ceti (*Menkar*) ...	2	56	86 24	11	− 0·05	− 1·1	8	− 0·02	− 2·4	8	+ 0·01	− 1·7
δ Arietis	3	4	70 45	4	0·00	+ 1·2	5	+ 0·03	+ 0·4	9	− 0·03	+ 1·0
α Persei	3	15	40 35	1	− 0·12	+ 0·1	...	.....	.....	...	.....	.....
ε Eridani	3	27	99 53	...	.....	.....	...	.....	.....	1	0·00	− 1·4
η Tauri (*Alcyone*) ...	3	40	66 17	11	− 0·02	− 0·3	12	− 0·01	− 0·3	8	+ 0·02	0·0
γ^1 Eridani	3	52	103 52	20	+ 0·02	− 1·2	9	+ 0·02	− 1·2	11	0·00	− 0·3
o^1 Eridani	4	6	97 10	11	+ 0·04	− 0·6	2	+ 0·02	− 2·2	5	0·00	+ 0·1
ε Tauri	4	21	71 6	10	+ 0·03	− 0·2	7	− 0·01	− 0·7	7	0·00	+ 0·3
α Tauri (*Aldebaran*)...	4	29	73 45	10	− 0·03	+ 0·4	4	+ 0·02	+ 0·1	5	− 0·03	+ 1·3
ι Aurigæ	4	49	57 2	17	+ 0·01	− 0·5	8	+ 0·07	− 0·3	8	+ 0·03	+ 0·2
ε Leporis	5	0	112 32	16	+ 0·01	− 1·5	7	− 0·02	− 1·0	7	− 0·01	− 0·2
α Aurigæ (*Capella*) ...	5	7	44 8	1	− 0·17	+ 0·1	...	.....	.....	...	.....	.....
β Orionis (*Rigel*) ..	5	9	98 21	9	0·00	− 1·9	...	.....	.....	2	+ 0·02	− 0·8
β Tauri	5	18	61 30	18	0·00	− 0·5	7	− 0·06	0·0	...	.....	.....
δ Orionis	5	26	90 24	2	− 0·03	− 2·5	3	− 0·06	− 0·7	1	0·00	+ 1·5
α Leporis	5	27	107 55	4	− 0·05	− 0·6	...	.....	.....	2	− 0·02	+ 0·5
ε Orionis	5	30	91 17	9	+ 0·07	− 1·4	1	− 0·05	− 0·3	4	− 0·05	0·0
α Columbæ	5	35	124 8	1	− 0·15	− 0·4	...	.....	.....	3	− 0·02	+ 1·0
α Orionis	5	48	82 37	13	− 0·05	− 1·6	5	+ 0·16	− 0·9	4	0·00	+ 2·0
ν Orionis	6	0	75 13	6	+ 0·07	− 0·3	1	+ 0·07	− 1·8	2	+ 0·01	+ 1·2
μ Geminorum ...	6	15	67 25	6	− 0·02	− 0·7	2	− 0·03	− 0·5	...	.....	.....

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	Approximate Place 1875.		1874.			1875.			1876.		
			Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h. m.	° ′		s	″		s	″		s	″
γ Geminorum ...	6 30	73 30	1	+0·14	+ 0·2	8	+0·06	+ 0·1	1	+0·01	+ 0·2
α Canis Maj. (*Sirius*)..	6 40	106 33	1	− 0·12	+ 3·0	...	.....	.....	...	.....	.....
51 (Hev.) Cephei ...	~~6 41~~	~~2 46~~	~~2~~	~~+0·87~~	~~+ 0·7~~	~~16~~	~~+0·14~~	~~+ 2·1~~	2	+0·15	− 1·3
ε Canis Majoris ...	6 54	118 48	1	+0·02	− 1·7	15	− 0·03	− 0·4	...	.....	.....
γ Canis Majoris ...	6 58	105 27	6	0·00	− 0·1	14	− 0·04	0·0	1	− 0·04	+ 0·2
α^2 Geminorum (*Castor*)	7 27	57 50	4	+0·02	+ 0·4	13	+0·03	+ 0·1	2	+0·02	+ 0·3
α Can. Min. (*Procyon*)	7 33	84 27	13	− 0·08	− 2·7	9	− 0·08	− 1·7	3	− 0·12	− 3·3
β Geminorum (*Pollux*)	7 38	61 40	5	+0·08	+ 1·0	5	+0·07	− 0·1	2	+0·15	− 0·2
6 Cancri	7 56	61 51	2	+0·06	+ 0·3	5	− 0·02	− 0·8	2	+0·04	− 1·6
15 Argûs (*Navis*) ...	8 2	113 57	7	− 0·07	− 0·3	7	+0·03	− 0·4	2	− 0·04	− 1·8
η Cancri	8 25	69 8	7	+0·05	− 0·6	5	+0·04	− 2·5	1	+0·03	− 1·4
ε Hydræ	8 40	83 7	13	+0·01	− 1·3	6	+0·01	− 1·1	3	+0·02	− 2·8
83 Cancri	9 12	71 46	6	+0·04	− 0·3	1	+0·02	− 0·8	3	0·00	− 1·4
α Hydræ	9 21	98 7	11	− 0·02	− 1·2	...	.....	.....	3	− 0·05	− 1·5
θ Ursæ Majoris ...	9 24	37 45	2	+0·18	− 3·7	...	.....	.....	...	.....	.....
ε Leonis	9 39	65 39	10	− 0·02	+ 0·6	3	− 0·03	− 1·4	3	− 0·01	− 0·4
π Leonis	9 54	81 21	7	+0·02	− 0·7	1	+0·06	− 1·8	1	− 0·08	− 1·2
α Leonis (*Regulus*) ...	10 2	77 25	8	− 0·01	− 0·2	3	+0·04	− 0·5	2	− 0·04	− 0·9
γ^1 Leonis	10 13	69 32	7	− 0·04	− 0·5	4	+0·04	+ 0·9	2	− 0·02	− 0·5
ρ Leonis	10 26	80 3	5	− 0·04	− 3·1	6	− 0·04	− 2·6	1	− 0·02	− 4·0
l Leonis	10 43	78 48	8	+0·05	− 1·7	10	+0·03	− 2·2	5	+0·04	− 2·4
χ Leonis	10 59	81 59	5	+0·02	− 1·6	11	0·00	− 2·3	2	+0·03	− 2·5
δ Leonis	11 7	68 48	3	− 0·07	+ 0·1	14	− 0·04	− 1·3	2	− 0·06	− 1·7
δ Crateris	11 13	104 6	2	+0·01	0·0	7	+0·01	− 1·5	4	0·00	− 1·0
υ Leonis	11 31	90 8	...	.....	.....	10	+0·01	− 1·8	2	+0·02	− 1·8
β Leonis (*Deneb*) ...	11 43	74 44	1	− 0·02	− 0·4	8	+0·04	0·0	3	+0·02	− 0·1
γ Ursæ Majoris ...	11 47	35 37	1	+0·09	− 2·4	...	.....	.....	...	.....	.....
ε Corvi	12 4	111 55	5	+0·01	− 0·6	2	+0·05	− 0·3	2	− 0·05	− 1·1
η Virginis	12 14	89 58	4	+0·02	− 1·9	...	.....	.....	2	+0·03	− 2·0
α^1 Crucis	12 20	152 24	1	− 0·18	− 0·6	...	.....	.....	...	.....	.....
β Corvi	12 28	112 42	4	+0·06	− 1·3	4	+0·03	+ 0·4	1	− 0·02	− 1·6
γ Virginis (*Mean*) ...	12 35	90 46	4	+0·06	+ 1·5	...	.....	.....	...	.....	.....
α Canum Venaticor...	12 50	51 0	2	+0·03	− 0·2	13	+0·03	+ 0·3	...	.....	.....
θ Virginis	13 3	94 52	10	+0·01	0·0	16	0·00	− 0·7	6	− 0·02	− 1·8
α Virginis (*Spica*) ...	13 19	100 30	9	− 0·03	0·0	10	− 0·03	− 1·0	1	+0·04	− 1·4

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	*m.*	° ′		*s*	″		*s*	″		*s*	″
ζ Virginis	13	28	89 57	6	+ 0·03	− 0·6	8	− 0·01	− 0·1	4	+ 0·01	− 1·5
η Bootis	13	49	70 58	14	− 0·01	− 0·7	13	− 0·01	− 1·1	5	0·00	− 2·0
β Centauri	13	55	149 46	3	− 0·04	− 0·1	3	− 0·14	− 2·2	...	.....	.....
τ Virginis	13	55	87 51	...	.....	.....	11	0·00	− 1·8	7	+ 0·01	− 2·8
α Bootis (*Arcturus*)....	14	10	70 10	5	+ 0·02	+ 1·4	10	− 0·01	+ 0·9	5	− 0·03	+ 0·6
ρ Bootis	14	26	59 5	2	− 0·03	+ 1·2	11	− 0·02	+ 0·1	2	− 0·01	− 0·4
ϵ^2 Bootis (*Mirac*) ...	14	40	62 24	13	+ 0·01	+ 0·4	13	+ 0·02	− 0·6	2	− 0·09	− 1·1
α Libræ	14	44	105 31	3	− 0·05	+ 1·4	12	− 0·02	+ 0·3	8	+ 0·02	− 0·5
ψ Bootis	14	59	62 34	3	+ 0·02	− 0·6	8	− 0·02	− 0·2	2	− 0·04	− 0·8
β Libræ	15	10	93 55	9	+ 0·02	− 0·1	9	+ 0·04	− 0·8	4	+ 0·04	− 1·4
α Coronæ Borealis ...	15	29	62 52	7	− 0·04	− 0·9	6	− 0·01	− 0·3	4	+ 0·02	− 0·6
α Serpentis	15	38	83 11	5	+ 0·01	− 2·0	6	0·00	− 1·3	3	− 0·04	− 1·0
ζ Ursæ Minoris ...	15	49	11 49	...	.....	.....	1	+ 0·31	− 2·5	...	.....	.....
β^1 Scorpii	15	58	109 28	10	− 0·02	− 1·7	5	+ 0·06	− 1·6	1	0·00	− 0·4
δ Ophiuchi	16	8	93 22	9	+ 0·03	+ 0·3	7	+ 0·02	+ 0·5	4	0·00	+ 1·1
α Scorpii (*Antares*) ...	16	22	116 9	6	0·00	− 1·9	5	− 0·03	− 0·9	3	+ 0·03	+ 0·6
η^2 Draconis	16	22	28 12	...	.....	.....	7	+ 0·18	− 3·0	...	.....	.....
α Trianguli Australis..	16	35	158 48	3	− 0·07	+ 3·0	4	− 0·05	+ 0·1	...	.....	.....
ζ Herculis	16	37	58 10	3	− 0·06	+ 0·4	7	− 0·06	+ 0·3	6	− 0·04	+ 0·3
κ Ophiuchi	16	52	80 26	8	0·00	− 0·9	17	+ 0·03	− 0·6	3	+ 0·04	− 1·0
ε Ursæ Minoris ...	16	59	7 46	3	+ 0·02	− 0·1	1	− 1·17	+ 0·7	1	+ 0·77	+ 0·7
α^1 Herculis	17	9	75 28	8	+ 0·03	− 0·9	15	− 0·02	− 2·0	9	+ 0·02	− 2·0
θ Ophiuchi	17	14	114 52	4	+ 0·04	+ 0·3	5	+ 0·07	+ 1·3	4	+ 0·04	+ 0·5
β Draconis	17	28	37 36	2	− 0·09	0·0	3	+ 0·02	− 3·2	...	.....	.....
α Ophiuchi	17	29	77 21	2	− 0·04	+ 0·2	4	+ 0·04	− 0·7	8	+ 0·03	− 1·1
μ Herculis	17	42	62 12	4	0·00	− 0·1	9	− 0·06	− 0·8	7	− 0·06	− 1·5
γ Draconis	17	54	38 30	1	+ 0·09	+ 1·5	...	.....	.....	...	.....	.....
μ Sagittarii	18	6	111 5	3	+ 0·07	0·0	9	+ 0·06	− 0·2	3	+ 0·04	− 1·2
δ Ursæ Minoris ...	18	13	3 24	3	− 0·45	− 2·3	...	.....	.....	6	− 0·71	− 0·6
α Lyræ (*Vega*) ...	18	33	51 20	9	− 0·04	+ 0·6	2	− 0·02	− 1·2	2	− 0·08	− 1·0
β^1 Lyræ	18	45	56 47	10	− 0·03	+ 0·8	3	− 0·01	− 1·6	2	+ 0·01	− 0·4
ζ Aquilæ	19	0	76 19	13	+ 0·03	+ 0·7	12	+ 0·02	− 0·3	7	0·00	0·0
ω Aquilæ	19	12	78 38	10	+ 0·05	− 1·6	6	− 0·03	− 0·1	3	+ 0·03	− 1·6
δ Aquilæ	19	19	87 8	16	0·00	− 0·8	4	+ 0·07	− 1·2	3	− 0·03	− 1·0
h^2 Sagittarii... ...	19	29	115 9	10	− 0·03	+ 0·7	1	+ 0·03	+ 0·9	4	0·00	− 0·4

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.	Approximate Place 1875.			1874.			1875.			1876.		
				Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	*m.*	° ′		*s*	″		*s*	″		*s*	″
γ Aquilæ	19	40	79 41	10	− 0·02	− 1·4	10	− 0·05	− 0·6	2	0·00	− 2·5
α Aquilæ (*Altair*) ..	19	45	81 28	9	− 0·01	− 2·0	5	+ 0·02	− 1·2	1	+ 0·04	− 1·7
β Aquilæ	19	49	83 54	5	+ 0·07	− 1·3	4	+ 0·03	− 1·5	2	+ 0·10	− 2·4
α^2 Capricorni ...	20	11	102 56	7	− 0·02	− 1·0	1	+ 0·05	+ 1·8	5	+ 0·03	− 0·2
ρ Capricorni	20	22	108 14	11	+ 0·04	− 1·4	5	− 0·01	− 1·6	5	+ 0·03	− 0·2
α Cygni (*Deneb*) ...	20	37	45 10	13	− 0·02	− 0·3	3	+ 0·03	+ 0·1	3	+ 0·11	− 0·2
32 Vulpeculæ ...	20	49	62 25	10	− 0·02	+ 0·1	6	+ 0·02	+ 0·1	8	− 0·03	+ 0·4
ζ Cygni	21	8	60 17	12	− 0·05	− 0·2	14	− 0·01	+ 0·1	8	+ 0·07	0·0
β Aquarii	21	25	96 7	18	+ 0·03	− 0·8	16	+ 0·04	− 0·2	15	− 0·02	+ 0·2
ε Pegasi	21	38	80 42	5	− 0·13	− 1·6	9	− 0·07	− 0·6	12	− 0·08	− 0·5
16 Pegasi	21	47	64 40	4	+ 0·02	+ 0·5	8	− 0·03	− 0·2	3	− 0·07	+ 0·6
α Aquarii	21	59	90 56	4	+ 0·10	− 0·4	6	− 0·01	− 0·2	6	+ 0·02	− 0·3
θ Aquarii	22	10	98 24	6	+ 0·05	− 1·2	11	+ 0·01	− 2·0	4	+ 0·05	− 1·8
η Aquarii	22	29	90 46	4	− 0·02	− 0·4	6	+ 0·04	− 1·5	2	+ 0·01	0·0
ζ Pegasi	22	35	79 49	8	− 0·01	− 1·6	11	− 0·02	− 1·3	...	.....	.....
α Piscis Australis ...	22	51	120 17	6	+ 0·02	− 0·8	5	+ 0·04	− 0·3	...	.....	.....
α Pegasi (*Markab*) ...	22	59	75 28	8	− 0·04	− 1·3	5	− 0·03	− 0·7	1	− 0·02	− 0·2
γ Piscium	23	11	87 24	6	− 0·01	− 1·9	8	− 0·01	− 3·2	1	+ 0·03	− 1·0
κ Piscium	23	21	89 26	6	0·00	− 0·5	8	0·00	− 0·9	1	− 0·05	+ 1·2
ι Piscium	23	34	85 3	10	− 0·02	− 2·6	9	− 0·03	− 1·1	2	− 0·02	+ 0·4
γ Cephei	23	34	13 4	5	+ 0·10	− 0·2	...	.....	.....	...	.....	.....
δ Sculptoris	23	42	118 49	9	+ 0·05	− 0·5	5	− 0·05	+ 0·2	1	− 0·02	+ 1·3
ω Piscium	23	53	83 50	4	+ 0·03	− 2·0	3	− 0·01	− 2·3	...	.....	.....

Errata in this and the four previous volumes.

Page.	No.	Subject.	For	Read
		In Madras Meridian Circle Observations for 1862, 63, *and* 64.		
111	861	Annual Precession in P. D. ...	3·392	3·292
		In Madras Meridian Circle Observations for 1865, 66, *and* 67.		
231	863	Annual Precession in R. A. ...	3·5510	3·3510
		In Madras Meridian Circle Observations for 1868, 69, *and* 70.		
81	498	Annual Precession in R. A. ...	2·9818	2·9518
99	818	" " ...	2·1831	2·1855
		In Madras Meridian Circle Observations for 1871, 72, *and* 73.		
114	820	Name ...	R Sagittarii, Var. 1	R Sagittæ, Var. 1
163	731	Annual Precession in R. A. ...	2·7827	2·7287
168	820	Name ...	R Sagittarii, Var. 1	R Sagittæ, Var. 1
223	27	Sign of Proper Motion in R. A. ...	−	+
227	84	Secular Variation in R. A. ...	0·0027	0·0047
231	154	Annual Precession in P. D. ...	1·330	1·335
237	280	Sign of Proper Motion in R. A. ...	+	−
I		Introduction ...	Auwer's	Auwers'
"		" ...	Robert Norman	Norman Robert
		In Madras Meridian Circle Observations for 1874, 75 *and* 76.		
36 72	485	Name ...	R Sagittarii, Var. 1	R Sagittæ, Var. 1
39	532	Date ...	Obt.	Oct.
63	285	Annual Precession in R. A. ...	2·6204	2·6240
91	102	Date ...	May	Mar.
127	265	Sign of Proper Motion in R. A. ...	−	+
133	20	Date ...	July	*Delete* 'July'

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1874

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
1		21 *Andromedæ α, Alpheratz.*			
Nov. 18	...	0 1 52·51	...	61 36 18·0	R
Dec. 1	...	1 52·60	...	36 18·6	R
2		*Anon.*			
Oct. 15	9·2	0 2 23·34	4	127 26 40·9	M
3		*Anon.*			
Oct. 14	9·7	0 5 28·90	5	126 14 44·7	M
4		88 *Pegasi γ, Algenib.*			
Oct. 27	...	0 6 44·94	...	75 31 1·3	M
Nov. 4	...	6 44·94	...	31 1·7	M
25	...	6 44·94	...	31 1·2	R
Dec. 3	...	6 44·94	...	30 58·9	R
5		*Anon.*			
Oct. 3	9·0	0 19 31·75	...	26 33 17·5	M
6		12 *Ceti.*			
Nov. 4	...	0 23 36·41	...	94 39 14·4	M
19	...	23 36·65	...	39 12·3	R
20	...	23 36·43	...	39 12·7	R
28	...	23 36·44	...	39 12·5	R
Dec. 3	...	23 36·49	...	39 10·6	R
4	...	23 36·40	...	39 11·9	R
5	...	23 36·43	...	39 13·3	M
7		*Anon.*			
Nov. 13	10·6	0 26 34·58	...	76 11 50·0	R
17	10·5	26 34·66	...	11 49·4	R
21	10·6	26 34·78	...	11 46·8	R
Dec. 1	10·6	26 34·53	...	11 48·6	R
8		*U Piscium, Var.* 4.			
Nov. 9	9·3	0 36 41·10	...	83 22 17·2	R
12	9·2	36 41·01	...	22 17·9	R
13	10·0	36 40·96	...	22 16·9	R
17	10·1	36 40·68	...	22 14·4	R
18	10·0	36 40·99	4	22 17·0	R
9		16 *Ceti β.*			
Nov. 21	...	0 37 15·79	...	108 40 42·4	R
Dec. 2	...	37 15·78	...	40 40·8	R
15	...	37 15·82	...	40 43·1	M
17	...	37 15·64	...	40 43·9	M
18	...	37 15·76	...	40 43·6	M
19	...	37 15·67	...	40 40·7	M
10		*R. P. L.* 10.			
Oct. 12	...	0 49 24·51	3	1 39 11·6	M
15	...	49 26·81	3	39 10·2	M
16	...	49 24·16	3	39 10·8	M
29	...	49 26·82	3	39 10·7	M
30	...	49 24·88	3	39 11·5	M
Nov. 3	...	49 24·13	3	39 11·1	R
4	...	49 24·37	3	39 10·6	M
		R. P. L. 10—*s.p.*			
Mar. 21	...	0 49 23·85	3	1 39 12·3	R
Apl. 21	...	49 26·32	3	39 12·6	M
23	...	49 26·52	3	39 13·7	R
24	...	49 25·17	3	39 11·6	R
27	...	49 24·53	3	39 12·5	R
May 19	...	49 24·13	3	39 10·8	R
21	...	49 24·87	3	39 12·7	R
22	...	49 25·05	3	39 12·3	R
11		2 *Ursæ Minoris—s.p.*			
May 30	...	0 51 54·75	3	4 25 14·9	R
June 4	...	51 53·29	4	25 16·7	M
5	...	51 53·63	3	25 14·6	M
12		*R. P. L.* 14.			
Oct. 31	...	0 55 21·70	3	3 31 38·0	M
Nov. 2	...	55 19·84	3	31 37·0	R
12	...	55 21·34	3	31 38·0	R
13	...	55 20·93	3	31 37·0	R
17	...	55 21·76	3	31 37·7	R
19	...	55 22·01	3	31 36·3	R
20	...	55 21·42	3	31 35·4	R
21	...	55 21·60	3	31 35·3	R
Dec. 2	...	55 22·47	3	31 34·1	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
		R. P. L.* 14—*s.p.			
June 9	...	0 55 10·27	2	31 38·2	M
13		**71 *Piscium* ε**			
Dec. 1	...	0 56 24·32	...	82 47 18·3	R
7	...	56 24·20	...	47 18·5	M
15	...	56 24·26	...	47 19·9	M
16	...	56 24·29	...	47 19·2	M
17	...	56 24·42	...	47 19·1	M
18	...	56 24·28	...	47 19·1	M
19	...	56 24·32	...	47 18·4	M
14		***Anon.***			
Nov. 2	9·5	1 2 3·98	...	17 33 4·4	R
3	9·6	2 3·09	...	33 3·4	R
4	9·6	2 3·28	4	33 2·5	M
15		***Anon.***			
Oct. 7	9·0	1 4 31·19	...	18 31 38·1	M
16		***S Cassiopeæ, Var.* 4.**			
Dec. 1	8·3	1 10 25·27	...	18 3 7·0	R
2	8·5	10 25·31	...	3 6·4	R
3	8·5	10 25·22	...	3 6·3	R
5	8·6	10 25·28	...	3 10·1	M
15	8·6	10 25·34	5	3 9·5	M
16	8·5	10 25·48	...	3 10·3	M
17	8·4	10 25·23	4	3 8·1	M
18	8·4	10 25·52	...	3 10·0	M
19	8·5	10 25·18	...	3 9·1	M
17		***S Piscium, Var* 2.**			
Nov. 10	8·5	1 10 59·34	...	81 44 0·8	R
11	9·1	10 59·35	...	44 1·5	R
17	9·1	10 59·51	...	43 58·0	R
18	...	10 59·57	...	43 59·2	C R
19	8·9	10 59·39	...	43 59·9	R
20	8·6	10 59·38	...	44 0·6	R
21	8·5	10 59·44	...	44 0·3	R
25	9·1	10 59·47	...	44 0·3	R
27	...	10 59·44	...	44 1·1	R
30	9·1	10 59·21	...	43 57·6	R
18		***R. P. L.* 18.**			
Dec. 4	...	1 11 25·18	3	2 5 42·9	R
		R. P L.* 18—*s.p.			
Mar. 31	...	1 11 24·98	3	2 5 41·5	R
Apl. 11	...	11 25·58	3	5 41·2	R
13	...	11 25·26	3	5 43·3	R
15	...	11 25·18	3	5 42·9	R
16	...	11 25·45	3	5 42·7	R
17	...	11 25·53	3	5 42·7	R
June 4	...	11 24·69	3	5 43·6	M
8	...	11 25·20	3	5 43·1	M
19		***Anon.***			
Oct. 16	9·4	1 12 13·18	...	152 19 23·0	M
30	9·2	12 13·03	...	19 22·5	M
31	9·3	12 13·22	...	19 22·6	M
20		***Anon.***			
Nov. 2	9·1	1 12 36·98	...	152 14 23·9	R
12	9·1	12 37·14	...	14 22·5	R
13	9·2	12 36·97	...	14 22·0	R
21		**1 *Ursæ Minoris a, Polaris*—*s.p.***			
Apl. 14	...	1 12 37·80	3	1 21 47·8	R
22		**45 *Ceti* θ^1**			
Dec. 13	...	1 17 43·53	...	98 50 0·8	M
23		**93 *Piscium* ρ**			
Jan. 8	6·0	1 19 27·76	...	71 29 2·4	M
Oct. 13	5·9	19 27·92	...	29 4·9	M
24		***Lalande* 2625.**			
Oct. 7	8·5	1 20 22·11	...	79 17 13·7	M
10	8·5	20 22·29	...	17 13·0	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
25		*Anon.*			
Nov. 12	10.1	1 24 30·51	...	90 3 21·9	R
21	10·2	24 30·61	...	3 22·1	R
26		99 *Piscium* η			
Dec. 13	...	1 24 44·53	...	75 18 17·7	M
27		106 *Piscium* ν			
Nov. 18	...	1 34 52·53	...	85 8 59·3	R
Dec. 13	...	34 52·68	...	9 2·4	M
16	...	34 52·55	...	9 2·2	M
28		6 *Arietis* β			
Nov. 18	...	1 47 40·91	...	69 48 29·3	R
Dec. 13	...	47 40·91	...	48 31·3	M
15	...	47 40·91	...	48 31·4	M
16	...	47 40·82	...	48 31·2	M
17	...	47 40·93	...	48 31·7	M
18	...	47 40·94	...	48 31·9	M
19	...	47 40·99	...	48 29·9	M
29		*Anon.*			
Jan. 7	9·9	2 6 ~~24·47~~ 23·24	...	151 21 ~~11·0~~ 15·0	M
8	9·9	6 ~~24·60~~ 23·28	...	21 ~~6·9~~ 13·9	M
30		*Anon.*			
Oct. 30	10·1	2 7 6·42	...	87 9 39·5	M
Nov. 4	10·1	7 6·35	4	9 42·2	M
31		67 *Ceti.*			
Dec. 8	...	2 10 42·03	...	97 0 12·8	M
32		*R Ceti, Var.* 2.			
Jan. 9	7·9	2 19 ~~37·80~~	...	90 44 50·7	M
14	8·0	19 ~~37·19~~	...	44 51·1	M
15	8·0	19 37·30	...	44 53·7	M
16	8·0	19 37·17	...	44 53·1	M
17	8·0	19 ~~37·24~~	...	44 54·5	M
19	8·0	19 37·22	...	44 53·9	M
Jan. 20	8·0	2 19 37·10	...	90 44 53·0	M
21	8·0	19 37·11	...	44 54·6	M
22	8·0	19 37·05	...	44 54·6	M
23	8·3	19 36·95	...	44 54·0	M
33		73 *Ceti* ξ^2			
Jan. 1	...	2 21 27·63	...	82 6 20·1	M
8	...	21 27·66	...	6 18·9	M
Dec. 22	...	21 27·75	5	6 22·0	M
34		*R. P. L.* 26.			
Oct. 28	...	2 25 5·65	7	3 30 12·8	M
Dec. 15	...	25 5·98	3	30 13·0	M
16	...	25 5·49	3	30 14·0	M
17	...	25 6·22	3	30 13·3	M
18	...	25 6·34	3	30 13·4	M
19	...	25 5·52	3	30 12·4	M
35		86 *Ceti* γ			
Jan. 6	...	2 36 46·39	...	87 17 45·8	M
7	...	36 46·39	...	17 45·5	M
8	...	36 46·41	...	17 44·3	M
9	...	36 46·31	...	17 44·2	M
10	...	36 46·29	...	17 46·0	M
12	...	36 46·40	...	17 45·4	M
14	...	36 46·35	...	17 42·4	M
15	...	36 46·46	...	17 45·8	M
16	...	36 46·39	...	17 44·8	M
17	...	36 46·39	...	17 46·5	M
19	...	36 46·24	...	17 46·9	M
20	...	36 46·21	...	17 45·4	M
21	...	36 46·47	...	17 47·0	M
23	...	36 46·25	...	17 46·1	M
Dec. 8	...	36 46·33	...	17 47·6	M
25	...	36 46·40	...	17 47·4	M
28	...	36 46·30	...	17 44·9	R
36		92 *Ceti* α, *Menkar.*			
Jan. 14	...	2 55 41·50	...	86 24 18·7	M
15	...	55 41·55	...	24 20·2	M
16	...	55 41·52	...	24 19·4	M
17	...	55 41·56	...	24 20·2	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
Jan. 19	...	2 55 41·61	...	86 24 21·3	M
20	...	55 41·48	...	24 20·5	M
21	...	55 41·59	...	24 20·6	M
23	...	55 41·43	...	24 20·5	M
Dec. 22	...	55 41·72	...	24 22·8	M
25	...	55 41·64	...	24 21·8	M
28	...	55 41·64	...	24 21·4	R
37	*57 Arietis δ*				
Jan. 5	...	3 4 25·61	...	70 45 4·9	M
22	...	4 25·58	...	45 7·0	M
Dec. 22	...	4 25·55	...	45 6·9	M
28	...	4 25·63	...	45 7·0	R
38	*33 Persei a*				
Jan. 22	...	3 15 20·04	...	40 35 22·2	M
39	*Anon.*				
Jan. 9	9·5	3 15 46·37	...	125 39 11·9	M
40	*Anon.*				
Jan. 12	9·6	3 17 14·02	...	127 4 50·1	M
15	9·5	17 13·91	...	4 49·3	M
41	*Anon.*				
Jan. 16	8·8	3 17 42·12	...	130 43 28·4	M
42	*1 Tauri o, Var.* 5.				
Jan. 3	5·5	3 18 2·05	...	81 24 56·5	M
5	5·7	18 1·84	...	24 57·9	M
6	5·8	18 2·06	...	24 57·8	M
7	5·7	18 1·87	...	24 57·3	M
8	5·7	18 1·95	3	24 56·0	M
43	*Anon.*				
Jan. 29	9·4	3 21 17·16	...	54 45 40·9	M
44	*R Persei, Var.* 3.				
Dec. 7	9·3	3 22 2·36	...	54 45 54·1	M
15	8·5	22 2·13	...	45 54·0	M
17	8·6	22 2·31	...	45 54·2	M
18	8·3	22 2·21	...	45 54·7	M
19	8·3	22 2·12	...	45 53·9	M
28	8·6	22 2·13	...	45 53·3	R
45	*R. P. L.* 34.				
Jan. 1	...	3 25 24·64	3	3 45 17·6	M
14	...	25 24·28	2	45 17·1	M
Dec. 5	...	25 25·39	2	45 17·2	M
25	...	25 22·89	2	45 16·6	M
46	*Anon.*				
Jan. 8	10·2	3 33 59·31	6	128 28 9·9	M
47	*25 Tauri η, Alcyone.*				
Jan. 3	...	3 39 59·67	...	66 17 10·4	M
5	...	39 59·83	...	17 10·5	M
6	...	39 59·79	...	17 10·9	M
10	...	39 59·85	...	17 9·5	M
12	...	39 59·72	...	17 10·5	M
23	...	39 59·76	...	17 10·4	M
24	...	39 59·64	...	17 12·9	M
26	...	39 59·95	...	17 13·7	M
28	...	39 59·86	3	17 11·3	R
29	...	39 59·85	...	17 10·2	R
Dec. 25	...	39 59·75	...	17 10·6	M
48	*34 Eridani* γ^1				
Jan. 3	...	3 52 9·11	...	103 52 4·0	M
5	...	52 8·98	...	52 5·3	M
6	...	52 8·99	...	52 5·9	M
9	...	52 9·06	...	52 6·6	M
10	...	52 9·03	...	52 6·5	M
12	...	52 9·03	...	52 5·1	M
13	...	52 9·25	...	52 7·3	R
14	...	52 9·17	...	52 4·2	M
15	...	52 8·98	...	52 5·3	M
16	...	52 9·07	...	52 5·1	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
Jan. 17	...	3 52 9·06	...	103 52 5·6	M
19	...	52 9·18	...	52 6·3	M
20	...	52 8·97	...	52 6·4	M
21	...	52 8·95	...	52 6·6	M
24	...	52 8·90	...	52 6·1	M
26	...	52 8·94	...	52 6·1	M
27	...	52 9·05	...	52 6·5	R
28	...	52 9·05	6	52 7·8	R
29	...	52 8·96	...	52 6·4	R
31	...	52 8·82	...	52 6·1	R
49		*R. P. L.* 35.			
Dec. 28	...	3 57 42·54	3	4 46 48·4	R
50		38 *Eridani* o^1			
Jan. 1	...	4 5 42·90	...	97 10 4·9	M
7	...	5 42·79	...	10 3·3	M
9	...	5 42·88	...	10 3·3	M
13	...	5 42·92	...	10 5·6	M
22	...	5 42·94	...	10 4·7	M
24	...	5 42·75	...	10 4·9	M
27	...	5 42·91	...	10 2·2	R
28	...	5 42·88	6	10 3·4	R
30	...	5 42·99	...	10 3·6	R
31	...	5 43·01	...	10 2·9	R
Feb. 3	...	5 43·02	...	10 3·5	R
51		74 *Tauri* ϵ			
Jan. 1	...	4 21 15·60	...	71 6 4·7	M
3	...	21 15·63	...	6 3·1	M
8	...	21 15·54	...	6 4·4	M
26	...	21 15·74	...	6 4·7	M
27	...	21 15·71	...	6 2·2	R
Feb. 2	...	21 15·75	...	6 3·6	R
3	...	21 15·52	...	6 4·9	R
4	...	21 15·62	...	6 5·2	R
5	...	21 15·65	...	6 4·1	R
6	...	21 15·58	...	6 3·0	R
52		*Anon.*			
Jan. 12	10·4	4 22 35·77	...	80 26 47·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
53		87 *Tauri a, Aldebaran.*			
Jan. 21	...	4 28 41·35	...	73 44 47·8	R
22	...	28 41·58	...	44 45·6	R
23	...	28 41·48	...	44 46·1	R
24	...	28 41·63	...	44 44·7	R
30	...	28 41·21	...	44 45·3	R
31	...	28 41·61	...	44 44·5	R
Feb. 5	...	28 41·58	...	44 48·4	R
6	...	28 41·43	...	44 46·8	R
7	...	28 41·55	...	44 46·8	R
Dec. 22	...	28 41·47	...	44 48·4	M
54		*Lacaille* 1551—2*nd.*			
Jan. 13	9·5	4 32 20·02	...	153 5 9·7	R
55		*Anon.*			
Jan. 1	9·5	4 34 31·90	...	130 50 22·9	M
3	9·9	34 32·05	...	50 18·6	M
5	9·5	34 31·95	...	50 22·0	M
56		*Anon.*			
Jan. 15	9·9	4 34 43·67	...	153 25 37·2	M
57		*Anon.*			
Jan. 16	9·8	4 39 19·30	...	153 14 48·7	M
17	9·7	39 19·29	...	14 45·8	M
58		3 *Aurigæ* ι			
Jan. 7	...	4 48 47·43	...	57 2 9·6	M
20	...	48 47·48	...	2 7·3	R
21	...	48 47·55	...	2 8·0	R
22	...	48 47·36	...	2 6·9	R
23	...	48 47·53	...	2 8·9	R
24	...	48 47·60	...	2 7·5	R
27	...	48 47·20	...	2 9·1	R
28	...	48 47·29	...	2 9·2	R
30	...	48 47·38	...	2 7·2	R
31	...	48 47·34	...	2 8·3	R
Feb. 2	...	48 47·36	...	2 8·1	R
7	...	48 47·30	...	2 7·6	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
Feb. 9	...	4 48 47·26	...	57 2 9·1	R
10	...	48 47·38	...	2 8·8	R
11	...	48 47·32	...	2 9·6	R
14	...	48 47·52	...	2 10·9	R
Dec. 22	...	48 47·30	...	2 10·0	R
59		*2 Leporis ε*			
Jan. 13	...	5 0 7·40	...	112 32 31·4	R
20	...	0 7·71	...	32 31·4	R
23	...	0 7·60	...	32 28·5	R
24	...	0 7·59	...	32 28·6	R
29	...	0 7·52	...	32 32·0	R
30	...	0 7·78	...	32 28·9	R
Feb. 3	...	0 7·66	...	32 32·1	R
4	...	0 7·49	...	32 30·7	R
6	...	0 7·72	...	32 31·5	R
9	...	0 7·60	...	32 28·6	R
11	...	0 7·68	...	32 29·4	R
12	...	0 7·58	...	32 29·5	R
13	...	0 7·62	...	32 29·7	R
14	...	0 7·56	...	32 30·1	R
16	...	0 7·59	...	32 29·7	R
18	...	0 7·69	...	32 30·4	R
60		*13 Aurigæ a, Capella.*			
Jan. 22	...	5 7 22·85	...	44 7 59·0	R
61		*19 Orionis β, Rigel.*			
Jan. 21	...	5 8 28·92	...	98 20 55·3	R
Feb. 2	...	8 28·88	...	20 55·2	R
6	...	8 28·94	...	20 55·6	R
10	...	8 29·06	...	20 53·9	R
13	...	8 28·89	...	20 56·0	R
16	...	8 28·89	...	20 55·6	R
18	...	8 28·95	...	20 55·5	R
19	...	8 29·02	...	20 54·2	R
20	...	8 28·96	...	20 56·6	R
62		*112 Tauri β.*			
Jan. 20	...	5 18 19·84	...	61 30 5·2	R
21	...	18 19·72	...	30 6·4	R
22	...	18 19·89	...	30 4·9	R
23	...	18 19·73	...	30 2·4	R
24	...	18 19·81	...	30 4·6	R
29	...	18 19·81	...	30 5·0	R
Feb. 2	...	18 19·67	...	30 3·5	R
3	...	18 19·56	...	30 3·5	R
4	...	18 19·55	...	30 5·4	R
5	...	18 19·54	...	30 5·1	R
7	...	18 19·66	...	30 6·0	R
10	...	18 19·59	...	30 5·8	R
11	...	18 19·63	...	30 6·0	R
12	...	18 19·74	...	30 6·8	R
14	...	18 19·71	...	30 5·9	R
19	...	18 19·82	...	30 5·6	R
20	...	18 19·71	...	30 5·1	R
21	...	18 19·66	...	30 5·4	R
63		*Anon.*			
Jan. 12	9·8	5 20 4·17	...	129 43 34·7	M
13	10·3	20 4·11	4	43 34·3	R
14	10·1	20 4·29	6	43 35·3	M
64		*R. P. L. 40—s.p.*			
July 15	...	5 21 50·14	3	4 52 30·3	R
65		*34 Orionis δ, Var. 1.*			
Feb. 23	...	5 25 34·15	...	90 28 37·1	R
24	...	25 34·16	...	28 38·0	R
66		*11 Leporis a*			
Feb. 14	...	5 27 10·29	...	107 54 51·8	R
19	...	27 10·34	...	54 50·3	R
20	...	27 10·40	...	54 50·5	R
21	...	27 10·34	...	54 49·7	R
67		*46 Orionis ε*			
Feb. 4	...	5 29 49·40	...	91 17 2·0	R
5	...	29 49·23	...	17 2·7	R
7	...	29 49·24	...	17 2·4	R
9	...	29 49·35	...	17 1·5	R
10	...	29 49·16	...	17 2·2	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
Feb. 11	...	5 29 49·17	...	91 17 2·8	R
12	...	29 49·22	...	17 4·2	R
13	...	29 49·14	...	17 2·1	R
18	...	29 49·15	...	17 2·4	R
68		*R. P. L.* 42.			
Jan. 5	...	5 31 55·53	3	2 41 11·7	M
15	...	31 56·02	3	41 12·8	M
16	...	31 56·55	3	41 12·5	M
17	...	31 55·96	3	41 13·9	M
19	...	31 55·92	3	41 11·6	M
20	...	31 55·20	3	41 11·9	M
21	...	31 54·87	3	41 12·1	M
23	...	31 55·26	2	41 13·8	M
24	...	31 55·35	3	41 14·4	M
26	...	31 56·13	3	41 13·4	M
69		*α Columbæ.*			
Dec. 26	...	5 35 5·14	...	124 8 31·6	R
70		58 *Orionis a*			
Feb. 9	...	5 48 20·96	...	82 37 6·1	R
12	...	48 20·98	...	37 6·2	R
13	...	48 21·08	...	37 4·8	R
16	...	48 21·09	...	37 4·4	R
18	...	48 20·94	...	37 6·4	R
19	...	48 20·90	...	37 4·6	R
20	...	48 21·01	...	37 6·3	R
21	...	48 20·91	...	37 5·5	R
23	...	48 20·97	...	37 3·9	R
24	...	48 20·97	...	37 6·6	R
25	...	48 20·90	...	37 6·2	R
26	...	48 21·00	...	37 5·3	R
Dec. 26	...	48 21·07	...	37 7·5	R
71		*Anon.*			
Jan. 13	10·2	5 50 30·26	5	137 10 12·5	R
19	10·4	50 30·27	...	10 12·7	M
72		*Anon.*			
Jan. 8	9·7	5 52 4·50	...	140 36 32·5	M
9	9·6	52 4·51	...	36 31·0	M
14	9·5	52 4·33	...	36 30·7	M
73		*Anon.*			
Jan. 23	9·7	5 52 29·04	...	141 46 0·1	M
74		*Anon.*			
Jan. 24	9·6	5 54 50·40	...	137 45 13·2	M
75		*Anon.*			
Jan. 5	9·5	5 55 9·19	...	121 31 0·1	M
76		*R. P. L.* 43.			
Jan. 27	...	5 56 26·91	3	3 14 16·7	M
29	...	56 27·03	7	14 15·0	R
30	...	56 27·13	7	14 17·2	R
31	...	56 28·85	7	14 16·0	R
Feb. 2	...	56 27·39	3	14 15·6	R
		R. P. L. 43—*s.p.*			
July 2	...	5 56 27·10	3	3 14 16·8	R
20	...	56 27·54	3	14 16·8	R
Aug. 28	...	56 27·96	3	14 17·6	M
29	...	56 28·23	3	14 18·2	M
77		*Anon.*			
Feb. 5	9·0	6 0 13·74	...	121 34 34·4	R
7	9·3	0 13·58	...	34 34·8	R
9	9·4	0 13·49	...	34 33·0	R
78		67 *Orionis ν*			
Feb. 21	...	6 0 22·88	...	75 13 6·5	R
23	...	0 22·77	...	13 6·7	R
24	...	0 22·76	...	13 6·5	R
25	...	0 22·77	...	13 7·9	R
27	...	0 22·60	...	13 6·2	R
28	...	0 22·65	...	13 7·6	R
79		*Lalande* 12072—1*st.*			
Dec. 15	7·6	6 13 59·96	...	68 51 28·1	M
18	7·6	13 59·65	...	51 27·9	M
19	7·6	13 59·71	...	51 26·5	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
80 13 *Geminorum* μ					
Feb. 23	...	6 15 20·27	...	67 25 27·0	R
24	...	15 20·27	...	25 26·8	R
25	...	15 20·30	...	25 24·7	R
26	...	15 20·27	...	25 26·5	R
28	...	15 20·25	...	25 27·7	R
Dec. 26	...	15 20·17	...	25 27·1	R
81 24 *Geminorum* γ					
Feb. 27	...	6 30 26·07	...	73 29 43·6	R
82 *Bonn* + 8°. 1429.					
Feb. 3	9·0	6 32 22·71	...	81 7 26·6	R
5	9·0	32 22·88	...	7 28·9	R
6	9·0	32 22·79	...	7 29·6	R
Mar. 6	9·7	32 22·63	...	7 28·8	M
7	9·5	32 22·98	...	7 27·7	R
83 9 *Canis Majoris* α, *Sirius*.					
Feb. 27	...	6 39 35·58	...	106 32 44·5	R
84 51 *Cephei* (*Hev.*)—*s.p.*					
July 30	...	6 40 45·24	3	2 45 52·6	R
Aug. 3	...	40 44·69	2	45 53·7	M
85 *Anon.*					
Feb. 24	8·6	6 42 56·76	...	130 36 59·5	R
Mar. 3	8·4	42 56·77	...	36 58·0	M
4	8·5	42 56·53	...	36 59·3	M
5	8·4	42 56·58	...	36 59·3	M
9	8·5	42 56·49	...	37 0·5	M
86 21 *Canis Majoris* ϵ					
Mar. 13	...	6 53 40·47	...	118 48 5·8	R
87 23 *Canis Majoris* γ					
Feb. 27	...	6 58 3·54	....	105 26 55·9	R
28	...	58 3·53	...	26 54·8	R
Mar. 5	...	58 3·51	...	26 55·1	M
12	...	58 3·38	...	26 54·3	R
14	...	58 3·53	...	26 54·0	R
16	...	58 3·47	...	26 55·7	R
88 *R Canis Minoris, Var.* 1.					
Jan. 16	8·2	7 1 46·71	...	79 46 45·2	M
89 *Bonn* + 38°. 1778.					
Feb. 14	9·6	7 24 5·96	...	51 58 41·3	R
18	9·6	24 5·93	...	58 37·4	R
19	9·7	24 5·88	...	58 37·6	R
20	9·6	24 5·74	...	58 37·9	R
90 *Anon.*					
Feb. 21	10·5	7 24 12·22	...	41 55 52·6	R
24	10·5	24 12·02	...	55 54·6	R
25	10·5	24 12·30	...	55 53·1	R
26	10·6	24 12·19	...	55 55·2	R
91 *Bonn* + 48°. 1546.					
Jan. 27	9·7	7 24 17·44	4	42 2 0·0	R
29	9·7	24 17·57	4	1 59·7	R
31	9·7	24 17·32	6	1 59·0	R
Feb. 2	9·6	24 17·69	...	1 57·5	R
92 66 *Geminorum* α^1, *Castor*.					
Mar. 6	...	7 26 33·38	...	57 50 16·8	M
9	...	26 33·15	...	50 19·2	M
10	...	26 33·10	...	50 18·8	M
11	...	26 33·16	...	50 18·1	M
12	...	26 33·28	...	50 20·0	R
13	...	26 33·17	...	50 18·5	R
14	...	26 33·36	...	50 19·2	R
16	...	26 33·29	...	50 19·2	R
17	...	26 33·19	...	50 19·1	R
19	...	26 33·10	...	50 18·1	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
93		66 *Geminorum* α^2, *Castor.*			
Mar. 2	...	7 26 33·61	...	57 50 16·2	M
3	...	26 33·56	...	50 14·0	M
4	...	26 33·42	...	50 14·3	M
5	...	26 33·53	...	50 15·7	M
94		*R. P. L.* 45.			
Jan. 12	...	7 27 40·10	2	1 0 15·1	M
Feb. 8	...	27 47·61	3	0 16·1	R
5	...	27 47·55	3	0 14·8	R
6	...	27 47·28	3	0 15·1	R
		R. P. L. 45—*s.p.*			
Sep. 12	...	7 27 47·71	2	1 0 15·0	R
15	...	27 47·99	3	0 15·4	R
Oct. 6	...	27 47·98	2	0 12·7	M
95		10 *Canis Minoris a, Procyon.*			
Feb. 26	...	7 32 42·22	...	84 27 12·2	R
28	...	32 42·37	...	27 13·6	R
Mar. 2	...	32 42·14	...	27 12·8	M
3	...	32 42·26	...	27 11·7	M
5	...	32 42·29	...	27 12·8	M
6	...	32 42·20	...	27 11·1	M
7	...	32 42·31	...	27 12·1	R
11	...	32 42·22	...	27 11·8	M
12	...	32 42·38	...	27 13·8	R
13	...	32 42·38	...	27 11·7	R
14	...	32 42·37	...	27 11·5	R
17	...	32 42·35	...	27 13·8	R
25	...	32 42·19	...	27 11·4	R
96		*Anon.*			
Feb. 10	9·8	7 34 39·51	...	68 10 14·9	R
11	9·8	34 39·53	...	10 11·9	R
97		*Anon.*			
Feb. 21	10·5	7 35 6·81	...	68 26 16·2	R
23	10·5	35 6·86	...	26 13·0	R
98		*Anon.*			
Feb. 12	9·9	7 35 17·42	...	68 11 8·7	R
13	9·9	35 17·22	...	11 10·5	R
99		*Anon.*			
Feb. 18	9·9	7 35 46·48	...	66 17 16·9	R
25	10·0	35 46·20	...	17 14·8	R
100		78 *Geminorum* β, *Pollux.*			
Mar. 2	...	7 37 36·32	...	61 40 19·6	M
3	...	37 36·31	...	40 18·4	M
4	...	37 36·25	...	40 17·4	M
6	...	37 36·26	...	40 17·5	M
11	...	37 36·33	...	40 20·2	M
101		*Anon.*			
Jan. 26	8·6	7 37 53·67	...	130 59 26·8	R
102		*Anon.*			
Mar. 19	10·6	7 37 56·73	...	68 31 1·0	R
20	10·5	37 57·04	...	30 57·1	R
21	10·7	37 57·05	...	30 56·1	R
103		*Anon.*			
Mar. 12	10·4	7 38 22·91	...	68 29 56·9	R
13	10·5	38 22·84	...	29 54·1	R
14	10·5	38 22·82	...	29 52·9	R
16	10·3	38 22·77	...	29 52·6	R
17	10·5	38 22·89	...	29 53·9	R
104		*Anon.*			
Jan. 28	9·0	7 41 53·40	4	148 9 45·9	R
105		*Anon.*			
Jan. 29	9·1	7 42 17·17	...	152 59 22·6	R
Feb. 13	9·0	42 17·33	...	59 20·3	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
106		*R. P. L.* 49.			
Feb. 7	...	7 46 28·15	3	5 35 10·1	R
9	...	46 ~~30·90~~ 28·48	3	35 10·8	R
		R. P. L. 49—*s.p.*			
Sep. 10	...	7 46 28·65	3	5 35 10·9	R
16	...	46 27·90	3	35 9·1	R
17	...	46 27·29	3	35 11·3	R
26	...	46 27·57	3	35 12·5	R
Oct. 5	...	46 28·87	2	35 10·3	M
7	...	46 29·29	2	35 11·3	M
12	...	46 29·14	3	35 10·4	M
15	...	46 28·24	3	35 9·3	M
17	...	46 29·85	2	35 10·3	M
107		*Brisbane* 1791.			
Mar. 3	8·4	7 46 32·69	...	144 26 9·4	M
108		*Anon.*			
Mar. 4	8·9	7 50 4·62	...	130 23 33·0	M
13	9·0	50 4·88	...	23 33·3	R
14	9·0	50 4·76	...	23 33·6	R
16	9·0	50 4·77	...	23 35·6	R
17	9·0	50 4·61	...	23 34·6	R
109		*Anon.*			
Mar. 7	8·9	7 50 47·52	...	129 24 14·6	R
10	8·5	50 47·46	...	24 13·3	M
11	8·5	50 47·14	...	24 13·7	M
12	8·6	50 47·38	...	24 13·7	R
110		*Anon.*			
Mar. 19	9·4	7 51 47·85	...	151 38 29·2	R
24	9·6	51 47·89	...	38 29·4	R
27	9·5	51 47·96	...	38 28·5	R
30	9·6	51 48·09	...	38 28·6	R
111		*Lacaille* 3082.			
Mar. 20	7·6	7 52 3·51	...	130 24 6·6	R
23	7·6	52 3·65	...	24 4·5	R
25	7·9	52 3·75	...	24 4·7	R
28	7·5	52 3·50	...	24 3·2	R
112		*Anon.*			
Mar. 21	10·0	7 52 ~~17·84~~ 18·41	4	151 42 5·0	R
113		*Anon.*			
Jan. 29	8·5	7 53 8·15	6	144 43 16·9	R
Feb. 3	8·3	53 ~~8·54~~ 8·45	...	43 16·8	R
114		6 *Cancri.*			
Feb. 26	...	7 55 46·77	...	61 51 16·3	R
Mar. 17	...	55 46·51	...	51 16·7	R
115		*Anon.*			
Feb. 25	10·0	8 0 42·78	4	78 29 30·5	R
116		*Anon.*			
Feb. 5	9·3	8 1 40·50	...	69 5 41·0	R
6	9·3	1 ~~40·49~~ 40·51	...	5 41·2	R
10	9·0	1 ~~40·86~~ 40·34	...	5 45·1	R
117		*Anon.*			
Feb. 11	10·0	8 1 ~~59·55~~ 59·58	...	69 14 46·3	R
118		15 *Argus.*			
Mar. 9	...	8 2 10·63	...	113 56 33·4	M
10	...	2 10·59	...	56 32·1	M
13	...	2 10·67	...	56 32·6	R
14	...	2 10·64	...	56 32·8	R
16	...	2 10·72	...	56 33·0	R
20	...	2 10·54	...	56 32·1	R
23	...	2 10·54	...	56 32·7	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
119 *Anon.*					
Jan. 30	9·3	8 11 2·28	5	77 39 35·2	R
120 *Anon.*					
Feb. 16	9·4	8 13 18·74	...	130 47 24·1	R
18	9·5	13 18·45	...	47 25·2	R
121 *Anon.*					
Feb. 25	9·3	8 13 41·75	...	131 43 0·1	R
122 *Anon.*					
Mar. 21	9·3	8 13 48·14	...	131 44 48·9	R
23	9·6	13 48·09	...	44 52·4	R
24	9·5	13 48·08	...	44 52·1	R
25	9·8	13 48·16	...	44 51·9	R
123 33 *Canceri* η					
Mar. 9	...	8 25 25·23	...	69 7 57·9	M
10	...	25 25·35	...	7 56·7	M
11	...	25 25·20	...	7 55·4	M
24	...	25 25·11	...	7 55·9	R
28	...	25 25·26	...	7 57·6	R
30	...	25 25·26	...	7 57·4	R
31	...	25 25·20	...	7 56·7	R
124 *Anon.*					
Feb. 7	9·8	8 26 11·45	...	61 49 42·5	R
13	9·9	26 11·60	...	49 44·1	R
14	10·0	26 11·68	...	49 40·6	R
125 *Anon.*					
Feb. 19	9·0	8 29 22·18	...	70 42 41·6	R
126 *Taylor* 3710.					
Feb. 25	8·0	8 31 41·68	...	141 23 7·6	R
127 11 *Hydræ* ϵ					
Mar. 4	...	8 40 6·19	...	83 7 13·4	M
6	...	40 6·25	...	7 12·2	M
7	...	40 6·23	...	7 12·8	R
9	...	40 6·16	...	7 13·2	M
10	...	40 6·06	...	7 13·1	M
12	...	40 6·22	...	7 13·1	R
17	...	40 6·23	...	7 10·9	R
24	...	40 6·11	...	7 11·5	R
25	...	40 6·23	...	7 12·4	R
28	...	40 6·06	...	7 12·2	R
Apl. 1	...	40 6·11	...	7 11·1	M
4	...	40 5·91	...	7 11·7	R
8	...	40 6·16	...	7 14·2	R
128 *R. P. L.* 60.					
Feb. 20	...	8 48 41·55	3	5 19 7·7	R
28	...	48 41·08	3	19 8·2	R
R. P. L. 60—*s.p.*					
Sep. 2	...	8 48 40·25	3	5 19 6·9	R
4	...	48 40·37	7	19 9·3	R
5	...	48 40·15	3	19 8·7	R
129 *Anon.*					
Mar. 5	8·7	8 54 19·21	...	132 57 54·4	M
130 82 *Canceri* π^2					
Feb. 27	7·2	9 8 16·60	...	74 32 16·6	R
131 *Anon.*					
Feb. 12	9·5	9 11 28·19	...	70 43 16·3	R
13	9·6	11 28·27	...	43 14·0	R
132 83 *Canceri.*					
Mar. 7	...	9 11 56·72	...	71 45 43·2	R
20	...	11 56·92	...	45 41·4	R
21	...	11 56·72	...	45 42·0	R
Apl. 1	...	11 56·78	...	45 42·3	M
6	...	11 56·86	...	45 43·5	R
11	...	11 56·78	...	45 43·0	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
133		*Anon.*			
Feb. 16	9·8	9 13 29·76	...	70 34 39·7	R
134		*Anon.*			
Feb. 20	9·4	9 16 38·64	...	139 3 31·3	R
21	9·4	16 38·39	...	3 33·9	R
23	9·4	16 38·46	...	3 32·8	R
135		*Anon.*			
Feb. 11	7·8	9 20 2·21	...	75 9 3·8	R
136		*Anon.*			
Feb. 19	8·7	9 20 8·68	...	125 23 44·2	R
137		*Anon.*			
Feb. 25	8·3	9 20 46·13	...	137 30 29·9	R
26	8·5	20 46·01	...	30 30·6	R
138		*Anon.*			
Feb. 27	8·4	9 20 51·93	...	125 25 31·8	R
139		*Anon.*			
Feb. 28	9·0	9 21 0·19	...	158 40 48·1	R
140		30 *Hydræ a, Var.* 2.			
Mar. 16	...	9 21 23·70	...	98 6 40·1	R
19	...	21 23·69	...	6 47·3	R
20	...	21 23·70	...	6 47·3	R
27	...	21 23·66	...	6 47·0	R
30	...	21 23·61	...	6 48·5	R
31	...	21 23·64	...	6 49·4	R
Apl. 1	...	21 23·70	...	6 48·4	M
6	...	21 23·59	...	6 50·0	R
13	...	21 23·69	...	6 47·5	R
16	...	21 23·69	...	6 48·5	R
20	...	21 23·65	...	6 46·0	M
141		25 *Ursæ Majoris θ*			
Mar. 3	...	9 24 25·17	...	37 44 54·9	M
4	...	24 25·22	...	44 58·0	M
142		*Anon.*			
Feb. 21	9·4	9 24 29·78	...	158 43 22·3	R
143		*R. P. L.* 69.			
Feb. 10	...	9 36 5·68	3	2 49 29·1	R
25	...	36 5·19	3	49 31·3	R
		R. P. L. 69—*s.p.*			
Sep. 14	...	9 36 5·22	2	2 49 30·0	R
21	...	36 4·47	3	49 30·2	R
Oct. 16	...	36 4·82	3	49 31·5	M
17	...	36 4·89	2	49 31·9	M
31	...	36 4·42	3	49 31·1	M
Nov. 4	...	36 4·11	3	49 31·3	M
144		17 *Leonis ε*			
Mar. 19	...	9 38 41·83	...	65 38 48·1	R
21	...	38 41·84	...	38 48·6	R
23	...	38 41·85	...	38 50·3	R
25	...	38 41·86	...	38 49·0	R
27	...	38 41·73	...	38 49·6	R
Apl. 4	...	38 41·56	...	38 50·8	R
9	...	38 41·79	...	38 50·0	R
11	...	38 41·74	...	38 49·4	R
15	...	38 41·80	...	38 48·9	R
23	...	38 41·69	...	38 47·9	R
145		*Anon.*			
Feb. 19	9·5	9 44 27·02		148 32 42·2	R
Feb. 20	9·5	9 44 28·23	...	148 32 41·0	R
146		*R. P. L.* 70—*s.p.*			
Aug. 24	...	9 48 4·98	3	5 28 39·2	M
Oct. 16	...	48 5·67	3	28 39·8	M
31	...	48 7·81	3	28 38·5	M
Nov. 4	...	48 6·56	3	28 39·2	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
147		*Anon.*			
Mar. 13	9·8	9 48 50·71	...	152 10 28·6	R
148		*W. B. N.* IX. 1020.			
Feb. 28	9·0	9 49 0·54	...	71 51 41·7	R
149		*W. B. N.* IX. 1047.			
Feb. 11	8·8	9 50 5·62	...	72 20 46·0	R
12	8·9	50 5·65	...	20 45·9	R
150		*Anon.*			
Feb. 24	9·6	9 51 8·53	...	74 33 32·6	R
25	9·7	51 8·76	...	33 31·2	R
Mar. 7	9·7	51 8·56	...	33 29·0	R
12	9·6	51 8·71	...	33 31·8	R
14	9·7	51 8·59	...	33 33·6	R
16	...	51 8·69	...	33 33·8	R
17	9·7	51 8·63	...	33 33·0	R
151		*Anon.*			
Feb. 19	9·6	9 52 48·97	...	72 4 26·6	R
152		29 *Leonis* π			
Mar. 24	...	9 53 33·31	...	81 21 6·8	R
31	...	53 33·25	...	21 8·7	R
Apl. 8	...	53 33·25	...	21 9·3	R
9	...	53 33·25	...	21 8·3	R
14	...	53 33·19	...	21 6·0	R
16	...	53 33·24	...	21 7·3	R
21	...	53 33·16	...	21 8·3	M
153		*W. B. N.* IX. 1160.			
Feb. 21	8·9	9 55 39·48	...	73 20 34·1	R
23	9·0	55 39·69	...	20 31·6	R
25	9·0	55 39·69	...	20 32·9	R
26	9·0	55 39·61	...	20 32·5	R
154		*Anon.*			
Mar. 19	10·1	9 55 41·31	...	72 20 50·9	R
20	10·1	55 41·11	...	20 51·1	R
21	10·1	55 41·12	...	20 51·4	R
23	10·0	55 41·25	...	20 52·8	R
27	10·0	55 41·19	...	20 50·2	R
155		*Anon.*			
Feb. 28	9·9	9 56 23·40	...	130 0 17·2	R
156		*W. B. N.* IX. 1189.			
Mar. 3	9·7	9 57 0·31	...	73 10 31·2	M
4	9·7	57 0·40	...	10 31·8	M
6	9·6	57 0·31	...	10 31·3	M
10	9·6	57 0·27	...	10 31·9	M
157		*Anon.*			
Mar. 30	9·0	9 58 8·66	...	145 35 55·7	R
158		*W. B. N.* IX. 1230.			
Mar. 11	9·6	9 58 25·55	...	72 55 23·3	M
24	9·5	58 25·74	...	55 24·0	R
25	9·8	58 25·77	...	55 25·6	R
27	9·4	58 25·72	...	55 24·3	R
159		*Anon.*			
Mar. 2	9·0	9 58 30·69	...	143 56 59·5	M
17	8·8	58 30·41	...	56 59·6	R
160		14 *Sextantis.*			
Feb. 26	6·5	10 0 12·10	...	83 46 29·2	R
27	7·0	0 12·12	...	46 29·5	R
28	7·5	0 12·22	...	46 26·6	R
161		*W. B. N.* IX. 1282.			
Feb. 19	9·0	10 0 51·41	...	73 6 31·4	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
162		32 *Leonis a, Regulus.*			
Apl. 4	...	10 1 39·44	...	77 25 4·2	R
8	...	1 39·56	...	25 4·5	R
11	...	1 39·62	...	25 5·2	R
15	...	1 39·49	...	25 3·8	R
20	...	1 39·66	...	25 2·6	M
21	...	1 39·62	...	25 5·3	M
22	...	1 39·66	...	25 6·0	R
24	...	1 39·65	...	25 2·0	R
163		33 *Leonis*			
Feb. 27	8·5	10 3 53·69	...	73 40 30·1	R
164		*R. P. L.* 72.			
Feb. 21	...	10 11 0·00	3	5 6 37·4	R
23	...	10 58·92	3	6 34·5	R
24	...	10 59·05	3	6 34·0	R
165		41 *Leonis* γ^1			
Mar. 19	...	10 13 1·86	...	69 31 18·9	R
23	...	13 1·47	...	31 19·9	R
Apl. 6	...	13 1·41	...	31 19·8	R
14	...	13 1·41	...	31 19·5	R
20	...	13 1·36	...	31 18·7	M
21	...	13 1·14	...	31 17·3	M
24	...	13 1·29	...	31 17·3	R
166		47 *Leonis* ρ			
Apl. 9	...	10 26 10·53	...	80 2 41·9	R
17	...	26 10·48	...	2 42·5	R
22	...	26 10·54	...	2 45·4	R
25	...	26 10·46	...	2 42·9	R
29	...	26 10·56	...	2 41·0	R
167		53 *Leonis l.*			
Mar. 27	...	10 42 38·03	...	78 47 18·0	R
Apl. 13	...	42 38·00	...	47 17·8	R
14	...	42 37·97	...	47 17·9	R
15	...	42 37·94	...	47 19·3	R
Apl. 17	...	10 42 38·00	...	78 47 17·4	R
23	...	42 38·02	...	47 15·7	R
25	...	42 38·01	...	47 17·3	R
29	...	42 37·99	...	47 18·0	R
168		*Anon.*			
Mar. 4	9·9	10 42 54·40	6	75 7 59·5	M
169		*Anon.*			
Mar. 3	8·6	10 43 1·98	...	141 7 37·5	M
170		*Anon.*			
Apl. 27	9·9	10 47 59·10	...	148 51 43·6	R
29	10·3	47 58·89	...	51 47·0	R
171		*R Crateris, Var.* 1.			
Mar. 16	9·0	10 54 21·74	...	107 38 57·3	R
19	9·0	54 21·63	...	38 56·3	R
172		*Anon.*			
Mar. 14	9·1	10 54 31·66	...	107 41 27·6	R
173		*R. P. L.* 79.			
[illegible] 7		10 58 3·18	3	1 40 36·8	R
Mar. 6	...	10 58 3·67	3	1 40 34·4	M
9	...	58 4·97	3	40 34·7	M
10	...	58 5·39	3	40 34·7	M
11	...	58 4·93	3	40 35·4	M
12		58 2·48	3	40 36·7	R
13		58 2·78	3	40 35·6	R
		R. P. L. 79—*s.p.*			
Oct. 29	...	10 58 4·87	2	1 40 38·3	M
Nov. 3	...	58 2·91	2	40 38·7	R
12		58 3·67	3	40 36·7	R
13		58 4·77	3	40 31·0	R
174		63 *Leonis* χ			
Mar. 21	...	10 58 30·97	...	81 58 58·3	R
30	...	58 30·97	...	58 59·4	R
Apl. 13	...	58 30·93	...	58 59·0	R
17	...	58 30·94	...	58 59·0	R
27	...	58 31·21	...	59 0·2	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
175		*Taylor* 5092.			
Mar. 4	8·8	11 5 45·09	...	143 52 23·5	M
5	8·6	5 45·39	...	52 23·6	M
176		*Anon.*			
Mar. 16	9·9	11 6 12·26	...	83 53 41·3	R
177		68 *Leonis* δ			
Apl. 16	...	11 7 24·26	...	68 47 11·8	R
22	...	7 24·28	...	47 11·1	R
27	...	7 24·25	...	47 10·8	R
178		73 *Leonis n.*			
Mar. 6	6·0	11 9 16·21	..	74 0 19·0	M
7	5·7	9 16·47	...	0 18·9	R
9	6·0	9 16·22	...	0 20·3	M
10	5·9	9 16·19	4	0 20·1	M
179		*Anon.*			
Mar. 12	9·9	11 9 55·24	...	145 58 31·1	R
180		*Anon.*			
Mar. 14	9·8	11 10 59·45	...	141 11 51·7	R
16	10·0	10 59·51	...	11 51·2	R
181		12 *Crateris* δ			
Apl. 16	...	11 13 2·58	...	104 5 49·3	R
27	...	13 2·49	...	5 49·3	R
182		*Anon.*			
Mar. 7	...	11 23 39·72	...	142 55 53·4	R
183		*Cordoba* 15790.			
Mar. 10	8·7	11 27 3·95	...	151 7 24·6	M
12	8·7	27 4·15	...	7 21·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
184		*Anon.*			
Mar. 13	9·9	11 27 10·86	...	151 44 49·4	R
14	9·8	27 10·74	...	44 52·5	R
185		*Anon.*			
Mar. 16	10·0	11 27 14·88	...	23 20 52·6	R
186		*Anon.*			
Mar. 17	9·0	11 27 31·94	...	23 0 50·3	R
19	9·2	27 31·77	...	0 48·2	R
20	...	27 32·02	...	0 49·9	R
187		94 *Leonis* β, *Deneb.*			
May 19	...	11 42 37·86	...	74 43 24·9	R
188		*Bonn* + 5°. 2550.			
Mar. 12	9·6	11 44 38·12	...	84 48 10·8	R
13	9·9	44 38·08	...	48 8·1	R
189		*Groombridge* 1830.			
Mar. 21	...	11 45 42·75	...	51 22 39·8	R
23	7·5	45 43·00	...	22 40·2	R
25	7·7	45 42·96	...	22 40·4	R
27	7·9	45 43·05	...	22 40·2	R
30	8·0	45 42·92	...	22 39·0	R
190		64 *Ursæ Majoris* γ			
Apl. 4	...	11 47 11·82	...	35 36 15·1	R
191		*Bonn* + 4°. 2550.			
Mar. 30	10·3	11 51 4·14	...	85 22 40·5	R
Apl. 4	10·0	51 3·80	...	22 40·1	R
6	10·1	51 4·02	...	22 40·7	R
192		*R. P. L.* 87.			
Mar. 14	...	11 52 57·30	3	2 18 14·8	R
16	...	52 55·62	3	18 16·6	R
17	...	52 55·97	3	18 13·0	R
19	...	52 56·12	3	18 13·8	R
20	...	52 56·11	5	18 15·3	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
		R. P. L.* 87—*s.p.			
Nov. 20	...	11 52 59·80	2	2 18 14·0	R
21	...	52 59·79	3	18 14·9	R
193		***Bonn* + 3°. 2592.**			
Mar. 12	9·0	11 57 47·71	...	86 23 41·0	R
194		***R. P. L.* 89—*s.p.***			
Oct. 30	...	11 58 23·62	3	3 42 54·2	M
195		***W. B. E.* XI. 986.**			
Mar. 13	9·0	11 58 38·45	...	85 55 18·8	R
196		***9 Virginis o***			
Mar. 25	...	11 58 47·59	...	80 34 1·7	R
27	5·0	58 47·61	...	33 59·8	R
Apl. 8	4·5	58 47·47	...	34 2·5	R
197		***2 Corvi ϵ***			
Apl. 24	...	12 3 38·94	...	111 55 6·4	R
25	...	3 38·87	...	55 8·2	R
May 19	...	3 38·87	...	55 7·6	R
21	...	3 38·74	...	55 6·7	R
23	...	3 38·82	...	55 7·9	R
198		***Anon.***			
Mar. 14	9·0	12 4 9·47	...	146 0 24·0	R
199		***Anon.***			
Mar. 16	...	12 4 20·93	...	145 59 43·4	R
200		***Anon.***			
Mar. 25	9·0	12 6 38·43	...	110 2 10·7	R
31	9·0	6 38·40	...	2 10·5	R
Apl. 4	9·2	6 38·64	...	2 9·8	R
6	9·2	6 38·66	...	2 9·7	R

Number and Date.	Magnitude.	Mean Right Ascension. 1874. h. m. s.	No. of Wires.	Mean Polar Distance. 1874. ° ′ ″	Observer.
201		***Anon.***			
Apl. 16	9·0	12 7 0·03	...	150 29 40·8	R
17	9·0	6 59·87	...	29 38·8	R
23	9·1	6 59·98	...	29 40·3	R
202		***Anon.***			
Apl. 13	9·4	12 7 0·00	...	142 54 2·2	R
14	9·6	7 0·13	...	54 3·1	R
15	9·4	6 59·84	...	54 1·6	R
203		***R. P. L.* 90.**			
Mar. 21	...	12 7 17·14	3	2 22 1·0	R
23	...	7 17·73	3	22 1·2	R
May 30	...	7 19·67	3	22 0·2	R
				0·8	
		R. P. L.* 90—*s.p.			
Oct. 10	...	12 7 17·80	2	2 22 4·0	M
12	...	7 16·37	3	22 0·1	M
Nov. 2	...	7 17·93	3	22 3·1	M
12	...	7 16·17	3	22 0·4	R
13	...	7 17·01	3	22 2·1	R
17	...	7 20·57	3	22 2·5	R
20	...	7 21·06	3	22 2·4	R
21	...	7 21·50	3	22 2·5	R
Dec. 4	...	7 18·81	3	22 0·8	R
				2·0	
204		***Anon.***			
Mar. 13	...	12 8 8·64	...	90 17 34·7	R
20	9·4	8 8·27	...	17 35·1	R
205		***69 Ursæ Majoris δ***			
Apl. 21	...	12 9 11·03	...	32 16 2·6	M
206		***Anon.***			
May 20	9·8	12 9 25·58	...	97 16 44·8	R
21	9·8	9 25·78	...	16 46·0	R
22	9·8	9 25·53	...	16 43·0	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension. 1874. h. m. s.	No. of Wires.	Mean Polar Distance. 1874. ° ′ ″	Observer.
207		*Lalande* 22983.			
Apl. 9	8·5	12 9 37·80	...	96 45 56·4	R
11	8·5	9 37·76	...	45 58·0	R
208		*Lalande* 22993.			
Mar. 17	8·6	12 9 53·60	...	96 49 51·7	R
209		*W. B. E.* XII. 139.			
Apl. 24	9·3	12 10 41·14	...	87 35 13·1	R
27	9·1	10 41·11	...	35 14·0	R
May 19	9·1	10 41·19	...	35 15·6	R
210		*W. B. E.* XII. 155.			
Mar. 25	9·0	12 11 31·03	...	87 43 27·4	R
Apl. 6	8·2	11 31·06	...	43 26·9	R
8	8·0	11 30·97	...	43 27·1	R
211		13 *Virginis.*			
Apl. 14	6·2	12 12 12·58	...	90 5 10·6	R
212		*Anon.*			
Mar. 20	8·8	12 13 24·73	...	108 34 26·2	R
Apl. 13	8·6	13 24·68	...	34 28·5	R
213		15 *Virginis* η			
Apl. 29	...	12 13 27·51	...	89 57 56·9	R
May 22	...	13 27·57	...	57 55·7	R
23	...	13 27·61	...	57 58·0	R
25	...	13 27·59	...	57 58·1	R
214		*Anon.*			
Mar. 16	...	12 19 11·35	...	143 33 27·2	R
215		*α Crucis*—1st.			
Apl. 8	...	12 19 35·59	...	152 23 57·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
216		*Anon.*			
Mar. 19	...	12 20 24·32	...	124 17 27·9	R
217		*O. A. S.* 12164.			
Apl. 16	8·3	12 20 29·49	...	111 41 35·6	R
17	8·0	20 29·63	...	41 34·8	R
21	8·0	20 29·35	...	41 34·5	R
23	8·1	20 29·49	...	41 32·7	R
25	8·3	20 29·46	...	41 35·1	R
218		*Anon.*			
Mar. 23	8·0	12 21 39·41	...	145 45 37·5	R
219		*Anon.*			
Mar. 21	9·3	12 24 25·04	...	91 43 9·6	R
25	9·4	24 25·04	...	43 10·5	R
31	9·4	24 25·28	...	43 9·5	R
220		*Anon.*			
Apl. 6	10·0	12 25 8·42	...	151 48 20·3	R
8	...	25 8·32	...	48 17·6	R
221		*Anon.*			
Apl. 11	9·6	12 27 44·57	...	38 3 44·4	R
13	9·6	27 44·69	...	3 42·5	R
14	9·8	27 44·53	...	3 43·9	R
15	9·6	27 44·63	...	3 43·2	R
222		9 *Corvi* β			
May 20	...	12 27 46·24	...	112 41 57·5	R
21	...	27 46·31	...	41 57·7	R
22	..	27 46·28	...	41 57·7	R
29	...	27 46·09	...	41 58·0	R
223		*Anon.*			
Mar. 20	9·0	12 28 22·17	...	140 58 50·6	R
Apl. 4	8·9	28 22·30	...	58 54·2	R
224		*Anon.*			
Mar. 20	9·0	12 33 22·52	...	143 10 40·6	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
225	29 *Virginis* γ^2 *(South.)*				
Mar. 25	...	12 35 16·82	...	90 45 32·5	R
Apl. 6	...	35 16·61	...	45 29·2	R
15	...	35 16·57	...	45 31·6	R
16	...	35 16·63	...	45 32·7	R
226	29 *Virginis* γ^1 *(North.)*				
Mar. 21	...	12 35 16·99	...	90 45 32·0	R
227	*R. P. L.* 98.				
Mar. 31	...	12 48 5·88	3	5 53 49·3	R
Apl. 4	...	48 5·42	3	53 49·8	R
6	...	48 5·45	7	53 49·6	R
8	...	48 5·78	7	53 50·8	R
11	...	48 6·35	7	53 49·0	R
13	...	48 6·26	7	53 48·8	R
14	...	48 5·68	7	53 49·6	R
15	...	48 6·02	7	53 49·1	R
16	...	48 6·35	7	53 50·9	R
17	...	48 6·52	7	53 51·5	R
	R. P. L. 98—*s.p.*				
Oct. 7	...	12 48 6·45	3	5 53 52·8	M
Nov. 18	...	48 7·62	3	53 51·9	R
Dec. 15	...	48 5·76	3	53 53·4	M
16	...	48 4·94	3	53 49·9	M
18	...	48 5·15	3	53 52·0	M
19	...	48 4·97	3	53 51·9	M
228	*R. P. L.* 99—*s.p.*				
Dec. 2	...	12 48 ~~15·82~~ 14·16	3	5 54 7·3	R
229	12 *Canum Venaticorum a*				
June 3	...	12 50 7·94	...	51 0 2·8	M
17	...	50 7·81	...	0 1·6	M
230	51 *Virginis* θ				
May 20	...	13 3 25·70	...	94 51 57·3	R
23	...	3 25·51	...	51 57·8	R
25	...	3 25·57	...	51 56·4	R
May 28	...	13 3 25·72	...	94 51 56·2	R
29	...	3 25·59	...	51 56·6	R
30	...	3 25 54	...	51 55·9	R
June 3	...	3 25·59	...	51 57·9	M
5	...	3 25·65	...	51 55·1	M
6	...	3 25·64	...	51 58·1	M
17	...	3 25·60	5	51 57·3	M
231	*R. P. L.* 101.				
Apl. 21	...	13 8 39·66	3	1 40 28·2	M
23	...	8 39·65	3	40 29·5	R
24	...	8 38·64	3	40 28·6	R
27	...	8 37·94	3	40 30·0	R
May 19	...	8 37·36	3	40 29·7	R
21	...	8 38·01	3	40 29·3	R
22	...	8 38·36	3	40 28·8	R
232	67 *Virginis a, Spica.*				
May 20	...	13 18 33·31	...	100 30 10·4	R
22	...	18 33·27	...	30 9·6	R
29	...	18 33·36	...	30 9·5	R
June 3	...	18 33·31	...	30 12·2	M
5	...	18 33·38	...	30 11·3	M
6	...	18 33·36	...	30 10·1	M
9	...	18 33·31	...	30 10·5	M
12	...	18 33·35	...	30 10·7	M
19	...	18 33·38	...	30 10·8	M
233	*Stone* 7365.				
Apl. 8	...	13 19 38·07	...	143 29 54·3	R
9	...	19 37·81	...	29 52·3	R
234	*Lacaille* 5546.				
Apl. 15	9·0	13 20 17·98	...	143 30 36·9	R
16	9·0	20 17·87	...	30 37·2	R
235	*Anon.*				
Mar. 31	9·5	13 22 22·35	...	112 31 3·5	R
Apl. 4	9·4	22 22·34	...	31 5·1	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
236	*x Virginis, Var.* 10.				
Apl. 9	...	13 27 58·80	...	102 34 2·6	R
11	5·8	27 58·59	...	34 2·7	R
13	6·3	27 58·62	...	34 1·1	R
14	...	27 58·50	...	34 2·3	R
15	6·2	27 58·61	...	34 1·7	R
16	6·0	27 58·82	...	34 2·3	R
17	6·0	27 58·73	...	34 2·4	R
20	6·0	27 58·62	...	34 1·9	M
21	6·5	27 58·67	...	34 2·5	M
23	6·0	27 58·63	...	34 0·6	R
237	*79 Virginis* ζ				
May 23	...	13 28 16·48	...	89 57 2·7	R
25	...	28 16·42	...	57 2·6	R
28	...	28 16·60	...	57 2·7	R
30	...	28 16·42	...	57 1·2	R
June 11	...	28 16·48	...	57 2·6	M
12	...	28 16·44	...	57 3·4	M
238	*Taylor* 6294.				
Apl. 24	7·0	13 29 46·89	...	135 46 59·8	R
27	6·0	29 47·01	...	47 1·7	R
May 19	6·0	29 47·05	...	47 1·5	R
20	6·3	29 46·98	...	47 1·1	R
21	6·3	29 47·02	...	47 0·6	R
239	*Anon.*				
Apl. 4	8·0	13 33 27·28	...	137 40 46·2	R
13	8·1	33 27·33	...	40 44·9	R
15	8·0	33 27·39	...	40 45·1	R
May 22	8·4	33 27·45	...	40 46·0	R
25	...	33 27·49	...	40 45·9	R
240	*Anon.*				
Apl. 14	8·0	13 35 13·71	...	136 21 11·3	R
21	7·9	35 13·92	...	21 12·9	M
23	7·1	35 13·90	...	21 11·1	R
24	7·8	35 13·67	...	21 12·6	R
27	7·1	35 13·84	...	21 13·2	R
241	*Anon.*				
Apl. 8	9·1	13 35 17·10	...	136 43 10·2	R
9	...	35 17·03	...	43 9·4	R
June 5	9·5	35 17·19	5	43 11·2	M
6	9·6	35 17·17	...	43 11·5	M
8	9·4	35 16·89	...	43 12·8	M
242	*Bonn* +0°. 3090.				
Mar. 31	9·5	13 35 30·31	...	89 28 38·7	R
243	*Bonn* +0°. 3091.				
May 21	10·4	13 36 28·14	...	89 38 0·9	R
30	10·0	36 28·13	...	38 1·7	R
244	*Anon.*				
May 20	9·3	13 37 9·69	...	144 41 22·5	R
245	*Taylor* 6363.				
May 19	8·1	13 37 17·93	...	147 36 30·4	R
246	*Lacaille* 5661.				
June 4	7·9	13 37 40·32	...	138 9 32·5	M
18	7·6	37 40·46	5	9 33·2	M
247	*Anon.*				
Apl. 11	9·5	13 38 4·90	...	123 51 6·8	R
May 22	9·9	38 4·97	...	51 7·9	R
248	*Anon.*				
Apl. 4	8·9	13 39 15·83	...	152 40 4·0	R
249	*Anon.*				
Apl. 20	8·7	13 39 44·34	...	138 53 10·9	M
250	*Anon.*				
Apl. 16	8·0	13 40 0·76	...	138 32 1·0	R
23	8·0	40 0·54	...	31 59·1	R
27	8·2	40 0·80	...	31 59·8	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
251		*Anon.—2nd.*			
Apl. 9	10·0	13 46 6·68	...	128 26 11·9	R
13	10·0	46 6·75	...	26 11·2	R
252		*x Virginis, Var.* 5.			
Apl. 8	9·0	13 47 44·83	...	78 18 54·6	R
253		*Taylor* 6473.			
Mar. 31	...	13 48 21·85	...	97 26 16·2	R
254		8 *Bootis* η			
Apl. 17	...	13 48 41·15	...	70 58 11·5	R
24	...	48 41·09	...	58 9·2	R
May 21	...	48 41·10	...	58 10·9	R
22	...	48 41·12	...	58 9·8	R
26	...	48 41·12	...	58 10·9	R
28	...	48 41 14	...	58 11·8	R
30	...	48 41·14	...	58 10·4	R
June 6	...	48 41·14	...	58 10·9	M
9	...	48 41·18	...	58 11 8	M
11	...	48 41·09	...	58 9·4	M
12	...	48 41·14	...	58 10·7	M
17	...	48 41·10	...	58 9·9	M
19	...	48 41·09	...	58 10·0	M
20	...	48 41·24	...	58 12·3	M
255		*Anon.*			
Apl. 4	10·2	13 52 1·33	...	108 33 34·7	R
256		*Anon.*			
Apl. 9	9·7	13 53 1·60	...	128 4 22·2	R
11	9·5	53 1·52	...	4 23·9	R
14	9·7	53 1·64	...	4 21·4	R
257		*β Centauri.*			
May 19	...	13 54 57·02	...	149 45 49·1	R
23	...	54 56·76	...	45 49·7	R
June 29	...	54 56·82	...	45 51·5	M

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
258		*W. B. E.* XIII. 1023.			
Mar. 31	8·2	13 59 6·60	...	102 5 54·4	R
Apl. 8	8·4	59 6·56	...	5 55·6	R
13	8·1	59 6·27	...	5 54·6	R
15	8·3	59 6·36	...	5 54·9	R
16	8·2	59 6·44	...	5 55·5	R
20	8·3	59 6·30	...	5 55·8	M
21	8·6	59 6·41	...	5 57·2	M
259		*W. B. E.* XIII. 1070.			
Apl. 4	8·5	14 1 38·72	..	101 57 55·8	R
17	8·1	1 38·55	...	57 55·1	R
24	8·8	1 38·61	...	57 55·4	R
27	8·5	1 38·76	...	57 56·6	R
May 20	8·4	1 38·74	...	57 54·9	R
21	8·4	1 38·59	...	57 55·3	R
22	8·4	1 38·77	...	57 54·6	R
260		*R. P. L.* 108.			
June 4	...	14 2 37·90	3	3 38 19·3	M
5	...	2 38·08	3	38 19·4	M
8	...	2 38·36	3	38 19·8	M
9	...	2 40·56	3	38 19·0	M
		R. P. L. 108—*s.p.*			
Oct. 28	...	14 2 37·27	5	3 38 22·2	M
Nov. 12	...	2 39·11	3	38 20·1	R
261		*Anon.*			
Apl. 23	9·1	14 3 3·90	...	101 48 17·3	R
May 30	9·5	3 3·84	...	48 18·0	R
June 6	9·6	3 4·06	...	48 18·8	M
18	9·4	3 4·01	...	48 17·7	M
262		*Bootis, Var.* 4.			
Apl. 13	9·2	14 4 51·07	...	79 35 22·1	R
14	9·3	4 51·11	...	35 22·8	R
16	9·1	4 51·14	...	35 21·5	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
263		*Anon.*			
Mar. 31	9·0	14 6 45·97	...	102 20 58·6	R
Apl. 8	9·1	6 46·15	...	20 59·6	R
15	9·1	6 45·95	...	20 57·8	R
27	8·2	6 46·08	...	21 0·2	R
May 19	9·2	6 46·02	...	20 58·9	R
21	9·4	6 45·89	...	21 0·0	R
22	9·4	6 45·90	...	20 59·0	R
23	...	6 45·86	...	20 59·5	R
264		16 *Bootis a, Arcturus.*			
May 26	...	14 9 54·83	...	70 9 39·1	R
June 8	...	9 54·95	...	9 40·1	M
9	...	9 54·91	...	9 39·7	M
11	...	9 54·97	...	9 38·0	M
19	...	9 54·94	...	9 37·7	M
265		*Anon.*			
Apl. 16	8·0	14 10 28·55	...	128 18 0·6	R
17	8·1	10 28·50	...	17 58·7	R
23	8·3	10 28·48	...	17 58·9	R
24	8·8	10 28·26	...	17 58·9	R
266		*Anon.*			
Apl. 9	9·4	14 13 9·36	...	136 52 40·2	R
11	9·4	13 9·29	...	52 41·6	R
267		*W. B. E.* XIV. 240.			
Mar. 31	9·0	14 15 2·32	...	102 36 17·8	R
Apl. 4	9·0	15 2·18	...	36 17·7	R
8	9·0	15 2·39	...	36 20·3	R
14	9·2	15 2·24	...	36 17·1	R
15	9·1	15 2·22	...	36 16·6	R
268		*Anon.*			
Apl. 13	9·0	14 15 54·90	...	122 14 21·7	R
269		*W. B. E.* XIV. 280.			
Apl. 27	7·8	14 16 54·04	...	102 24 22·8	R
May 19	8·1	16 54·19	...	24 22·6	R
23	...	16 53·98	...	24 22·6	R
May 28	8·3	14 16 54·16	...	102 24 23·2	R
29	8·3	16 54·13	..	24 21·5	R
270		*Lacaille* 5926.			
Apl. 17	9·1	14 17 15·01	...	119 2 45·0	R
271		*Taylor* 6721.			
Apl. 23	7·2	14 17 54·46	...	101 5 46·2	R
272		*Anon.*			
May 22	10·3	14 18 0·86	...	123 16 9·9	R
June 18	10·0	18 0·72	...	16 10·6	M
273		*W. B. E.* XIV. 315.			
Apl. 11	6·5	14 18 28·27	...	102 46 55·7	R
May 20	7·1	18 28·27	...	46 54·1	R
21	7·0	18 28·24	...	46 53·6	R
30	7·1	18 28·35	..	46 52·9	R
June 4	6·9	18 28·45	...	46 56·2	M
5	6·9	18 28·42	...	46 55·3	M
8	6·5	18 28·18	...	46 54·2	M
9	6·5	18 28·46	...	46 56·2	M
274		*W. B. E.* XIV. 360.			
Mar. 31	8·0	14 20 55·71	...	102 47 29·3	R
Apl. 4	7·8	20 55·59	...	47 28·5	R
8	7·8	20 55·48	...	47 30·5	R
15	8·0	20 55·36	...	47 28·7	R
24	8·0	20 55·50	...	47 28·4	R
27	7·8	20 55·42	...	47 27·6	R
May 19	8·0	20 55·62	...	47 29·8	R
June 12	7·7	20 55·63	...	47 29·5	M
17	...	20 55·46	...	47 28·1	M
275		*W. B. E.* XIV. 392.			
Apl. 16	9·1	14 22 44·52	...	103 15 36·4	R
May 20	9·4	22 44·52	...	15 35·1	R
21	9·4	22 44·43	...	15 35·8	R
22	9·4	22 44·38	...	15 35·4	R
23	...	22 44·37	...	15 36·5	R
28	8·3	22 44·40	...	15 38·2	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
276		*W. B. E.* XIV. 410.			
Apl. 9	9·0	14 23 55·48	...	103 2 38·1	R
13	9·0	23 55·30	...	2 36·0	R
14	9·3	23 55·25	...	2 36·7	R
277		25 *Bootis* ρ			
June 4	...	14 26 23·94	...	59 4 29·3	M
24	...	26 23·99	...	4 29·4	M
278		*W. B. E.* XIV. 458.			
Mar. 31	9·0	14 26 42·14	...	103 31 11·1	R
Apl. 4	9·5	26 41·95	...	31 10·0	R
8	9·6	26 42·04	...	31 10·9	R
11	9·5	26 41·92	...	31 13·7	R
15	10·0	26 41·94	...	31 10·3	R
279		*O. A. N.* 14652.			
June 8	8·6	14 27 9·79	...	20 9 42·2	M
280		*Anon.*			
May 22	9·8	14 27 19·80	...	123 22 43·0	R
30	9·8	27 19·74	...	22 41·4	R
June 6	9·3	27 19·76	...	22 42·8	M
281		*W. B. E.* XIV. 512.			
Apl. 16	9·0	14 29 26·75	...	103 28 34·1	R
17	9·0	29 26·75	...	28 36·7	R
282		*R Bootis, Var.* 1			
Apl. 8	8·0	14 31 38·34	...	62 42 56·6	R
9	...	31 38·28	...	42 55·8	R
283		*Anon.*			
Mar. 31	10·0	14 35 17·79	...	61 58 39·7	R
284		*Anon.*			
Apl. 4	9·3	14 37 16·25	...	150 19 56·2	R
11	9·3	37 16·07	..	19 58·7	R
15	9·6	37 16·02	...	19 56·9	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
285		36 *Bootis* ϵ^2, *Mirac.*			
Apl. 23	...	14 39 29·06	...	62 23 37·3	R
27	...	39 28·98	...	23 36·6	R
May 19	...	39 29·13	...	23 36·8	R
22	...	39 29·02	...	23 38·5	R
26	...	39 29·16	...	23 36·7	R
June 4	...	39 29·11	...	23 37·8	M
5	...	39 29·00	...	23 38·3	M
18	...	39 29·1	...	23 37·9	M
24	...	39 29·0	...	23 36·9	M
29	...	39 29·03	...	23 36·7	M
July 1	...	39 29·06	...	23 35·7	R
3	...	39 29·10	...	23 36·8	R
9	...	39 29·10	...	23 35·9	R
286		*Anon.*			
Mar. 31	9·0	14 43 2·61	...	129 9 22·2	R
287		8 *Libræ* α^1			
Apl. 4	6·0	14 43 43·01	...	105 28 17·8	R
8	6·0	43 43·01	...	28 18·3	R
288		9 *Libræ* α^2			
June 8	...	14 43 54·59	...	105 31 2·8	M
29	...	43 54·55	...	31 1·7	M
July 2	...	43 54·58	...	31 1·2	R
289		*Anon.*			
Apl. 9	8·1	14 46 1·82	...	101 51 52·5	R
11	8·0	46 1·80	...	51 52·2	R
290		13 *Libræ* ζ^1			
Apl. 16	6·1	14 47 32·49	...	101 22 55·6	R
17	6·2	47 32·51	...	22 57·2	R
23	6·3	47 32·30	...	22 56·9	R
291		*Anon.*			
May 21	9·8	14 48 16·68	...	150 43 27·2	R
22	9·8	48 16·72	...	43 26·5	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
292		*Anon.*			
May 19	9·1	14 51 1·72	...	130 34 40·7	R
30	9·2	51 1·71	...	34 39·0	R
293		*Anon.*			
Apl. 9	9·0	14 51 42·77	...	39 22 4·8	R
11	9·0	51 42.58	...	22 4·7	R
27	9·2	51 42·79	...	22 4·0	R
294		*Anon.*			
Mar. 31	9·0	14 52 12·40	...	123 15 12·4	R
Apl. 8	9·0	52 12·15	...	15 10·8	R
295		*Taylor* 6991.			
May 23	...	14 52 12·33	...	39 51 20·3	R
28	5·5	52 12·22	...	51 20·0	R
296		*O. A. N.* 14999.			
Apl. 24	9·0	14 53 52·42	5	41 27 50·5	R
May 22	9·3	53 52·61	...	27 52·0	R
June 5	8·7	53 52·80	...	27 50·7	M
297		*O. A. N.* 15004.			
Apl. 17	7·9	14 54 12·44	...	39 23 27·8	R
298		19 *Librae* δ, *Var.* 4.			
May 29	...	14 54 14·70	...	98 1 3·9	R
June 6	5·8	54 14·57	...	1 4·4	M
8	5·9	54 14·53	...	1 3·3	M
17	5·2	54 14·48	...	1 4·2	M
18	5·3	54 14·72	...	1 3·8	M
299		*Anon.*			
Apl. 8	...	14 58 21·26	...	131 33 6·3	R
300		43 *Bootis* ψ			
July 2	...	14 59 2·89	...	62 33 36·9	R
7	...	59 2·81	...	33 34·8	R
9	...	59 2·86	...	33 34·0	R
301		47 *Bootis* κ			
Apl. 11	6·0	15 1 15·39	...	41 21 40·7	R
17	...	1 15·37	...	21 40·4	R
May 19	6·2	1 15·51	...	21 41·0	R
20	6·8	1 15·41	...	21 40·8	R
302		*Anon.*			
Apl. 23	8·9	15 1 30·30	...	97 24 40·9	R
24	9·0	1 30·31	...	24 42·6	R
27	8·8	1 30·34	...	24 43·7	R
303		*Anon—2nd.*			
Apl. 9	8·6	15 4 10·80	...	122 21 1·2	R
May 28	8·9	4 10·96	...	21 5·0	R
304		*O. A. N.* 15138.			
May 29	...	15 4 27·72	...	43 2 22·9	R
July 3	9·0	4 27·97	...	2 22·7	R
305		*R. P. L.* 111—*s.p.*			
Jan. 14	...	15 4 34·78	3	5 33 47·9	M
15	...	4 34·32	3	33 42·8	M
16	...	4 34·85	3	33 46·6	M
Dec. 25	...	4 33·25	3	33 44·7	M
306		*W. B. E.* XV. 86.			
Apl. 8	9·2	15 7 3·72	...	98 4 9·5	R
307		*Anon.*			
Apl. 27	8·8	15 7 18·60	...	98 17 39·5	R
May 23	...	7 18·41	...	17 39·1	R
30	8·8	7 18·55	...	17 36·5	R
July 7	...	7 18·46	...	17 35·5	R
9	8·2	7 18·46	...	17 36·4	R
308		*Anon.*			
June 18	8·8	15 7 22·17	6	130 28 47·4	M
July 15	9·0	7 22·02	...	28 44·7	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
309		*27 Libræ β*			
Apl. 17	...	15 10 13·70	...	98 54 59·5	R
23	...	10 13·70	...	54 57·5	R
June 4	...	10 13·66	...	55 0·6	M
8	...	10 13·64	...	55 0·8	M
24	...	10 13·68	...	54 59·0	M
July 1	...	10 13·63	...	54 58·6	R
4	...	10 13·75	...	54 59·6	R
14	...	10 13·64	...	54 58·8	R
16	...	10 13·70	...	54 59·6	R
310		*Redhill* 2293—*s.p.*			
Jan. 17	...	15 13 24·17	3	4 23 18·2	M
19	...	13 23·95	3	23 18·3	M
27	...	13 24·30	3	23 20·0	M
29	...	13 24·04	3	23 19·9	M
311		*Anon.*			
Apl. 9	9·0	15 14 49·56	...	123 9 44·2	R
312		*Lacaille* 6354.			
Apl. 11	9·0	15 15 38·41	...	124 17 24·2	R
27	8·9	15 38·26	...	17 23·6	R
May 19	9·1	15 38·55	...	17 22·1	R
313		*S Coronæ Borealis, Var.* 2.			
May. 28	7·2	15 16 15·95	...	58 10 43·7	R
29	...	16 16·07	...	10 43·3	R
30	7·2	16 16·17	...	10 43·1	R
June 5	7·3	16 15·93	...	10 42·3	M
9	7·4	16 15·94	...	10 43·0	M
18	6·2	16 15·98	...	10 41·9	M
29	6·4	16 15·72	...	10 43·3	M
314		*W. B. E.* XV. 290.			
May 20	8·5	15 17 33·87	...	102 27 24·7	R
23	...	17 34·03	...	27 26·8	R
July 1	8·3	17 33·83	...	27 24·1	R
2	8·2	17 33·87	...	27 24·6	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
315		*Anon.*			
July 3	9·0	15 17 43·38	...	130 5 50·0	R
20	9·1	17 43·42	...	5 47·8	R
21	9·2	17 43·45	...	5 47·5	R
316		*R. P. L.* 114—*s.p.*			
Jan. 31	...	15 18 37·54	3	2 17 12·8	M
317		*W. B. E.* XV. 319.			
Apl. 17	9·0	15 18 44·26	...	102 25 26·1	R
23	9·1	18 44·38	...	25 25·5	R
318		*Anon.*			
Apl. 27	9·0	15 22 19·46	...	129 28 7·7	R
May 28	9·2	22 19·54	...	28 6·3	R
319		*Anon.*			
Apl. 11	8·6	15 23 2·41	...	125 12 16·4	R
320		*Anon.*			
Apl. 23	9·6	15 25 12·66	...	130 11 0·1	R
May 19	9·6	25 12·93	...	11 2·1	R
20	9·7	25 12·90	...	11 2·0	R
321		*Lacaille* 6421.			
Apl. 17	8·0	15 26 16·54	...	122 44 37·8	R
322		*Lalande* 28320.			
Apl. 27	8·2	15 27 2·76	...	103 48 11·3	R
May 21	8·3	27 2·85	...	48 9·9	R
28	8·2	27 2·66	...	48 11·8	R
29	...	27 2·56	...	48 10·8	R
323		*5 Coronæ Borealis a*			
May 30	...	15 29 21·31	...	62 51 35·6	R
July 2	...	29 21·20	...	51 35·6	R
4	...	29 21·18	...	51 35·4	R
7	...	29 21·21	...	51 34·6	R
14	...	29 21·16	...	51 36·3	R
20	...	29 21·18	...	51 33·3	R
21	...	29 21·16	...	51 33·7	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
324		*Anon.*			
July 3	10·0	15 29 49·40	...	119 42 28·5	R
15	10·0	29 49·62	...	42 26·2	R
16	10·0	29 49·52	...	42 25·3	R
325		*Anon.*			
Apl. 11	9·5	15 30 49·34	...	129 35 29·5	R
326		*W. B. E.* XV. 557.			
May 23	...	15 30 58·50	...	104 6 47·9	R
June 5	7·4	30 58·31	...	6 48·2	M
6	7·6	30 58·38	...	6 48·6	M
327		*W. B. E.* XV. 564.			
Apl. 23	7·0	15 31 27·51	...	104 5 55·5	R
May 19	7·0	31 27·71	...	5 55·6	R
20	7·4	31 27·56	...	5 56·8	R
328		43 *Libræ κ.*			
May 21	5·3	15 34 41·23	...	109 16 7·1	R
28	5·2	34 41·40	...	16 6·2	R
29	...	34 41·13	...	16 5·8	R
329		*Anon.*			
May 30	8·7	15 35 30·38	...	129 3 24·5	R
July 9	8·5	35 30·24	...	3 22·8	R
330		24 *Serpentis a.*			
Apl. 11	...	15 38 3·76	...	83 10 35·2	R
July 3	...	38 3·74	...	10 32·6	R
7	...	38 3·79	...	10 33·5	R
14	...	38 3·77	...	10 33·3	R
17	...	38 3·72	...	10 32·8	R
331		*O. A. S.* 14840.			
May 22	8·5	15 38 19·80	...	114 19 6·0	R
23	...	38 20·08	...	19 4·4	R
June 4	8·4	38 20·14	...	19 4·7	M
332		*Anon.*			
June 18	8·0	15 38 20·32	...	125 29 3·1	M
19	8·0	38 20·22	...	29 3·4	M
July 16	8·2	38 20·41	...	29 2·1	R
20	8·1	38 20·26	...	29 0·0	R
21	8·3	38 20·30	...	29 3·0	R
333		*O. A. S.* 14841.			
July 2	9·0	15 38 24·30	...	114 9 39·6	R
4	9·1	38 24·38	...	9 42·5	R
15	9·0	38 24·22	...	9 39·9	R
334		*O. A. S.* 14874.			
May 20	9·2	15 40 1·65	...	104 50 32·4	R
335		*Lacaille* 6524.			
June 24	5·9	15 41 20·17	...	144 40 8·4	M
336		*Anon.*			
May. 21	9·8	15 42 43·41	...	104 26 15·0	R
July 9	9·6	42 43·18	...	26 16·1	R
337		*R Coronæ Borealis, Var.* 1.			
May 28	6·8	15 43 22·92	...	61 27 20·0	R
June 6	6·4	43 22·82	...	27 19·9	M
9	6·6	43 23·04	...	27 20·0	M
17	6·1	43 22·67	...	27 21·1	M
July 4	6·1	43 22·77	...	27 21·1	R
338		*Anon.*			
Apl. 11	9·5	15 44 31·56	...	104 23 23·8	R
339		36 *Serpentis b.*			
May 23	...	15 44 42·35	...	92 42 27·0	R
340		*W. B. E.* XV. 861.			
July 15	9·4	15 46 5·06	...	101 27 16·5	R
16	9·5	46 5·07	5	27 18·4	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
341		*Radcliffe* 3462.			
July 3	8·3	15 46 41·05	...	47 3 20·7	R
342		*R. P. L.* 115—*s.p.*			
Jan. 1	...	15 46 55·54	3	4 45 45·3	M
7	...	46 54·99	2	45 48·2	M
Dec. 5	...	46 56·34	3	45 45·6	M
15	...	46 55·99	3	45 48·9	M
17	...	46 55·23	3	45 47·7	M
18	...	46 55·85	3	45 45·7	M
343		*O. A. S.* 14996.			
May 20	9·4	15 47 3·85	...	105 17 17·2	R
July 22	9·5	47 3·78	...	17 20·8	R
344		*Lalande* 28970.			
May 21	8·4	15 48 24·91	...	70 50 55·6	R
345		*O. A. S.* 15053.			
June 5	8·3	15 49 36·18	...	105 27 43·3	M
346		*W. B. E.* XV. 923.			
July 2	9·2	15 49 51·75	...	104 57 49·2	R
347		*Anon.*			
June 18	8·9	15 49 58·29	6	104 0 47·8	M
July 9	9·1	49 57·99	...	0 45·5	R
348		*Lalande* 29054.			
May 23	...	15 51 3·98	...	104 5 26·7	R
349		4 *Herculis.*			
May 28	...	15 51 16·34	5	47 4 0·3	R
July 1	...	51 15·98	...	3 57·7	R
350		7 *Scorpii* δ.			
May 22	...	15 52 53·20	...	112 15 40·3	R
351		49 *Libræ.*			
July 3	5·8	15 53 15·71	...	106 9 36·0	R
352		*Taylor* 7439.			
May 21	8·8	15 55 6·12	...	126 46 50·6	R
353		*O. A. S.* 15146.			
July 14	9·0	15 55 21·42	...	107 30 32·8	R
15	9·0	55 21·48	...	30 31·6	R
354		*W. B. E.* XV. 1047.			
July 2	8·1	15 56 27·34	...	91 17 49·1	R
355		51 *Scorpii* ξ.			
May 23	...	15 57 26·40	...	101 1 26·7	R
356		8 *Scorpii* β^1			
Apl. 11	...	15 58 6·78	...	109 27 30·0	R
May 20	...	58 6·65	...	27 29·2	R
28	...	58 6·59	...	27 30·9	R
June 18	...	58 6·71	6	27 32·2	M
July 1	...	58 6·86	...	27 29·9	R
3	...	58 6·70	...	27 29·9	R
9	...	58 6·67	...	27 29·1	R
17	...	58 6·78	...	27 28·7	R
21	...	58 6·83	...	27 27·9	R
29	...	58 6·77	...	27 30·0	R
357		9 *Scorpii* ω^1			
May 22	5·0	15 59 26·50	...	110 19 33·7	R
June 4	4·6	59 26·27	...	19 34·8	M
July 7	4·6	59 26·30	...	19 34·2	R
358		*O. A. S.* 15237.			
May 21	8·5	15 59 53·32	...	106 36 3·8	R
29	...	59 53·25	...	36 3·1	R
359		*Lalande* 29306.			
June 6	8·7	16 0 0·52	...	107 35 40·8	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
360		*11 Scorpii.*			
June 24	6·1	16 0 36·70	...	102 24 15·9	M
July 14	6·0	0 36·89	...	24 15·2	R
15	5·9	0 36·97	...	24 14·3	R
Aug. 7	6·3	0 36·74	...	24 17·3	M
12	6·0	0 36·59	5	24 16·7	M
361		*R. P. L.* 116—*s.p.*			
Jan. 5	...	16 2 37·79	3	4 20 26·8	M
12	...	2 36·45	3	20 28·9	M
Feb. 2	...	2 38·71	3	20 24·8	R
362		*Lalande* 29414.			
July 4	8·0	16 2 52·56	...	102 33 7·8	R
Aug. 13	8·0	2 52·41	6	33 6·9	M
14	8·0	2 52·44	6	33 7·5	M
363		*W. B. E.* XVI. 83.			
May 21	8·3	16 6 36·55	...	102 42 39·0	R
23	...	6 36·50	...	42 39·0	R
364		*O. A. S.* 15412.			
July 2	9·1	16 6 52·68	...	106 4 42·6	R
9	9·0	6 52·47	...	4 40·6	R
365		*O. A. S.* 15416.			
June 9	7·7	16 7 4·41	...	110 47 7·6	M
July 1	8·0	7 4·41	...	47 4·8	R
7	8·0	7 4·47	...	47 5·3	R
366		*O. A. S.* 15418.			
July 14	9·0	16 7 5·04	...	106 13 5·2	R
Aug. 7	8·9	7 5·07	4	13 7·8	M
367		*1 Ophiuchi δ*			
May 29	...	16 7 44·68	...	93 22 5·5	R
June 18	...	7 44·58	...	22 6·9	M
July 15	...	7 44·57	...	22 4·7	R
17	...	7 44·58	...	22 4·9	R
July 20	...	16 7 44·59	...	93 22 4·5	R
22	...	7 44·61	...	22 4·1	R
29	...	7 44·59	...	22 4·0	R
31	...	7 44·61	...	22 4·8	R
Aug. 11	...	7 44·61	...	22 7·7	M
368		*Anon.*			
July 3	10·1	16 10 19·02	...	112 35 1·7	R
369		*Anon.*			
May 21	10·5	16 12 59·14	...	107 38 15·6	R
23	...	12 59·01	...	38 15·2	R
370		*Anon.*			
May 20	8·0	16 15 1·23	...	146 12 35·1	R
371		*Anon.*			
July 7	9·5	16 16 26·43	...	128 9 6·6	R
9	9·5	16 26·44	...	9 7·1	R
14	9·5	16 26·64	...	9 7·1	R
372		*Anon.*			
Aug. 14	9·2	16 16 37·05	...	152 18 33·2	M
373		*Anon.*			
July 4	10·0	16 17 10·50	...	107 27 3·3	R
374		*O. A. S.* 15606.			
July 2	9·0	16 17 26·26	...	107 15 56·6	R
3	9·1	17 26·34	...	15 56·9	R
375		*O. A. S.* 15613.			
June 4	7·9	16 17 50·98	...	113 10 3·4	M
6	7·6	17 51·10	...	10 2·0	M
376		*5 Ophiuchi ρ*			
June 9	7·2	16 18 1·76	...	113 9 17·6	M
17	7·0	18 1·82	...	9 18·4	M
19	7·0	18 1·88	...	9 16·1	M
July 1	7·1	18 1·95	...	9 18·6	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
377		*Taylor* 7621.			
July 15	9·0	16 18 2·20	...	113 6 44·9	R
22	9·4	18 1·89	...	6 43·9	R
Aug. 3	8·6	18 2·18	...	6 46·3	M
378		*Anon.*			
Aug. 8	9·1	16 18 40·19	...	129 32 3·8	M
11	9·0	18 40·10	...	32 2·7	M
12	9·0	18 40·11	...	32 0·9	M
379		7 *Ophiuchi* χ			
May 19	...	16 19 43·57		108 10 5·5	R
23	...	19 43·61		10 6·4	R
June 5	...	19 43·14		10 6·1	M
380		21 *Scorpii a, Antares.*			
July 4	...	16 21 41·05	...	116 8 59·5	R
15	...	21 40·98	...	8 59·0	R
20	...	21 41·07	...	8 59·4	R
21	...	21 41·06	...	8 59·8	R
29	...	21 40·99	...	8 59·6	R
Aug. 7	...	21 41·07	...	9 1·5	M
381		*Lalande* 30042			
May 21	8·8	16 23 4·23	...	48 28 11·5	R
382		8 *Ophiuchi* ϕ			
May 29	...	16 23 55·79	...	106 20 8·4	R
July 9	...	23 55·47	...	20 6·3	R
383		30 *Herculis g.*			
Aug. 13	5·9	16 24 29·74	5	47 50 26·3	M
384		*Anon.*			
May. 20	9·4	16 27 5·38	...	130 56 9·9	R
30	9·5	27 5·47	...	56 9·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
385		13 *Ophiuchi* ζ			
May 23	...	16 30 13·24	...	100 18 37·4	R
29	...	30 13·14	...	18 35·4	R
386		*Brisbane* 5784.			
May 20	9·8	16 31 47·58	...	150 40 41·3	R
387		*Taylor* 7724.			
May 21	7·4	16 34 29·65	...	109 40 50·6	R
28	7·2	34 29·55	...	40 49·9	R
388		*Anon.*			
May 30	8·2	16 35 19·62	...	134 8 14·6	R
389		*a Trianguli Australis.*			
Aug. 8	...	16 35 20·63	...	158 47 37·8	M
14	...	35 20·51	...	47 36·0	M
28	...	35 20·71	5	47 35·5	M
390		40 *Herculis* ζ			
July 22	...	16 36 32·15	...	58 10 2·2	R
31	...	36 32·20	...	10 4·2	R
Aug. 7	...	36 32·15	...	10 4·8	M
391		*Anon.*			
July 2	9·0	16 37 25·45	...	130 59 8·4	R
392		*O. A. S.* 15952.			
May 21	9·3	16 39 58·00	...	111 56 40·7	R
23	...	39 58·09	...	56 41·6	R
393		*Lacaille* 6984.			
Aug. 11	8·1	16 40 21·27	5	120 58 34·8	M
12	8·0	40 21·29	...	58 32·1	M
13	8·0	40 21·31	...	58 31·3	M
394		*Anon.*			
May 20	8·4	16 45 6·15	...	131 2 32·6	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
395		*Anon.*			
July 21	10·0	16 45 20·98	...	75 17 46·0	R
22	10·2	45 20·98	...	17 45·1	R
396		*Taylor* 7815.			
June 3	8·3	16 46 10·93	...	130 18 54·5	M
July 20	8·5	46 11·28	...	18 53·5	R
397		49 *Herculis.*			
Aug. 24	7·6	16 46 20·75	6	74 48 43·1	M
28	7·3	46 20·57	...	48 45·2	M
398		*Anon.*			
May 30	9·0	16 46 56·30	...	136 38 34·4	R
399		*Anon.*			
Aug. 14	8·6	16 47 32·69	...	130 17 27·1	M
400		*Stone* 9208.			
June 18	8·1	16 48 12·36	...	121 6 5·9	M
Aug. 3	8·0	48 12·56	3	6 7·3	M
401		*Anon.*			
May 21	8·2	16 49 33·54	...	125 32 18·4	R
23	...	49 33·41	...	32 19·5	R
402		27 *Ophiuchi* κ			
July 1	...	16 51 42·15	...	80 25 38·5	R
15	...	51 42·29	...	25 35·7	R
16	...	51 42·17	...	25 37·7	R
22	...	51 42·26	...	25 35·4	R
30	...	51 42·27	...	25 36·4	R
Aug. 12	...	51 42·18	...	25 38·9	M
13	...	51 42·24	...	25 38·0	M
18	...	51 42·25	...	25 39·0	M
403		*Anon.*			
May 20	8·8	16 52 18·46	...	122 54 40·9	R
June 4	8·6	52 18·75	...	54 41·7	M
5	8·5	52 18·55	...	54 41·3	M
404		*O. A. S.* 16232.			
July 21	10·0	16 54 32·86	...	100 15 39·0	R
405		22 *Ursæ Minoris* ε			
July 20	...	16 58 56·91	7	7 45 33·8	R
Aug. 28	...	58 57·42	5	45 30·7	M
		22 *Ursæ Minoris* ε—*s.p.*			
Dec. 28	...	16 58 57·02	5	7 45 31·1	R
406		*Anon.*			
May 21	8·2	17 4 43·31	...	59 8 0·9	R
23	...	4 43·39	...	8 1·2	R
407		*Lacaille* 7168.			
May 30	8·0	17 5 16·83	...	128 8 28·6	R
408		*O. A. S.* 16432.			
June 18	8·0	17 6 24·11	...	105 24 27·9	M
July 1	8·1	6 23·97	...	24 28·8	R
409		*Anon.*			
Aug. 25	9·0	17 6 48·83	...	130 54 49·3	M
28	9·0	6 48·69	...	54 47·1	M
410		64 *Herculis* α, *Var* 1.			
July 16	...	17 8 54·15	...	75 27 52·8	R
30	...	8 54·10	...	27 49·8	R
31	...	8 54·15	...	27 50·6	R
Aug. 6	...	8 54·31	...	27 49·8	M
7	...	8 54·21	...	27 51·7	M
18	...	8 54·13	...	27 51·2	M
19	...	8 54·17	...	27 53·4	M
21	...	8 54·18	...	27 50·2	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
411		*Anon.*			
July 2	8·1	17 9 40·79	...	124 4 59·3	R
412		*Anon.*			
May 30	10·2	17 12 40·25	...	130 28 19·4	R
413		42 *Ophiuchi* θ			
July 14	...	17 14 16·41	...	114 52 16·0	R
30	...	14 16·35	...	52 15·8	R
Aug. 3	...	14 16·46	...	52 18·0	M
6	...	14 16·26	...	52 17·0	R
414		*Anon.*			
July 20	8·5	17 21 55·46	..	130 46 11·6	R
22	9·0	21 55·38	6	46 11·1	R
Aug. 8	9·1	21 55·32	...	46 14·1	M
12	9·1	21 55·18	5	46 12·8	M
415		*Brisbane* 6091.			
May 30	8·5	17 22 11·66	...	148 27 34·4	R
416		*Lacaille* 7135.			
Aug. 14	7·6	17 22 50·52	...	130 56 21·5	M
24	7·4	22 50·57	...	56 22·2	M
25	7·5	22 50·78	...	56 22·8	M
28	7·7	22 50·57	...	56 21·8	M
417		23 *Draconis* β			
Aug. 11	...	17 27 35·20	...	37 36 17·8	M
22	...	24 35·08	...	36 16·9	M
418		*Taylor* 8129.			
May 30	8·2	17 28 11·36	...	77 23 50·6	R
419		55 *Ophiuchi* α			
Aug. 3	...	17 29 5·02	...	77 20 48·0	M
21	...	29 5·14	...	20 46·7	M

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
420		*Anon.*			
July 2	8·0	17 29 5·56	8·0	125 15 6·0	R
421		*Anon.*			
July 20	9·0	17 30 5·26	...	130 56 48·8	R
22	9·4	30 5·22	5	56 49·4	R
422		*Taylor* 8141.			
July 1	6·4	17 31 10·59	...	111 50 8·4	R
423		56 *Serpentis* o			
July 16	8·5	17 34 20·30	...	101 48 18·7	R
20	6·3	34 20·19	...	48 18·4	R
424		*Anon.*			
Aug. 13	9·2	17 34 53·96	4	128 57 52·7	M
425		*Anon.*			
May 30	8·5	17 40 36·35	...	126 28 35·6	R
426		86 *Herculis* μ			
Aug. 6	...	17 41 31·58	...	62 12 16·2	R
18	...	41 31·67	...	12 16·3	M
19	...	41 31·67	...	12 15·8	M
28	...	41 31·74	...	12 13·8	M
427		*Anon.*			
July 21	8·8	17 42 42·99	...	118 27 36·7	R
22	8·6	42 42·97	...	27 38·0	R
Aug. 15	9·0	42 42·82	...	27 39·1	M
428		*Radcliffe* 3765.			
July 1	8·4	17 43 33·49	...	17 32 9·4	R
429		31 *Draconis* ψ^2			
July 30	...	17 44 12·25	4	17 46 52·8	R
Aug. 11	6·0	44 12·92	5	46 54·2	M
24	6·4	44 13·15	...	46 52·8	M
25	6·5	44 12·88	...	46 54·3	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
430		*Anon.*			
June 18	8·0	17 45 42·~~59~~ ~~66~~	...	128 35 31·2	M
431		*Lacaille* 7499.			
May 30	7·4	17 48 57·14	...	129 4 50·1	R
432		33 *Draconis* γ			
June 17	...	17 53 40·~~91~~ ~~84~~	...	38 29 46·0	M
433		*Anon.*			
July 2	10·0	18 4 20·01	...	59 9 50·0	R
434		13 *Sagittarii* μ^1			
Aug. 19	...	18 6 13·58	5	111 5 22·7	M
22	...	6 13·85	...	5 22·6	M
26	...	6 13·61	...	5 21·9	M
435		14 *Sagittarii.*			
July 15	5·0	18 6 41·58	...	111 44 38·6	R
Aug. 6	...	6 41·71	...	44 41·4	R
12	5·6	6 41·61	...	44 40·5	M
13	5·7	6 41·66	...	44 39·9	M
436		*Anon.*			
Aug. 21	8·0	18 7 23·19	...	122 22 37·7	M
31	8·0	7 23·27	...	22 39·2	M
437		15 *Sagittarii.*			
Aug. 11	5·0	18 7 41·90	...	110 45 49·7	M
15	5·2	7 41·75	...	45 47·8	M
18	...	7 41·95	4	45 51·6	M
438		*Lacaille* 7644.			
July 20	...	18 9 39·94	...	132 19 53·5	R
439		23 *Ursæ Minoris* δ			
July 15	...	18 12 59·04	3	3 23 31·2	R
Sep. 4	...	12 58·52	3	23 32·1	R
5	...	12 58·42	3	23 32·2	R
440		24 *Ursæ Minoris.*			
July 2	...	18 17 25·56	3	3 0 51·0	R
		24 *Ursæ Minoris—s.p.*			
Jan. 26	...	18 17 25·61	2	3 0 50·8	M
Feb. 3	...	17 ~~27·21~~ 26·09	3	0 50·0	R
6	...	17 ~~27·00~~ 25·72	3	0 50·3	R
7	...	17 26·15	3	0 49·7	R
441		*O. A. S.* 18326.			
June 24	8·4	18 23 58·~~80~~ 2	...	109 14 35·3	M
442		V *Sagittarii, Var.* 5.			
Aug. 26	...	18 24 0·69	4	108 20 49·1	M
27	7·7	24 0·71	...	20 51·4	M
29	7·8	24 0·81	...	20 51·3	M
443		*Taylor* 8527.			
July 14	6·1	18 24 3·10	...	108 29 9·8	R
444		*U Sagittarii, Var.* 4.			
Aug. 6	...	18 24 28·07	...	109 12 39·5	R
8	6·2	24 27·94	...	12 40·3	M
12	6·5	24 27·89	...	12 40·3	M
445		θ *Coronæ Australis.*			
Aug. 14	6·9	18 24 30·12	...	132 24 1·4	M
15	6·9	24 30·11	...	24 0·9	M
446		*O. A. S.* 18346.			
July 15	7·1	18 24 48·07	...	109 12 37·0	R
447		*Taylor* 8551.			
July 20	7·3	18 28 10·75	...	149 13 17·0	R
Sep. 7	7·3	28 10·71	...	13 17·0	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
448		*Anon.*			
Sep. 4	9·7	18 30 6·75	...	135 12 2·8	R
5	9·7	30 6·71	...	12 2·1	R
8	9·7	30 6·86	...	12 1·9	R
449		*Anon.*			
July 14	9·0	18 30 10·51	...	135 51 26·6	R
15	9·0	30 10·46	...	51 25·4	R
450		3 *Lyræ a, Vega.*			
Aug. 8	...	18 32 40·35	...	51 19 58·8	M
12	...	32 40·19	...	19 57·4	M
13	...	32 40·32	...	19 57·2	M
15	...	32 40·39	...	19 57·5	M
21	...	32 40·29	...	19 57·0	M
22	...	32 40·32	...	19 58·0	M
24	...	32 40·33	...	19 56·9	M
25	...	32 40·30	...	19 59·0	M
31	...	32 40·23	...	19 58·8	M
451		*Anon.*			
July 14	9·0	18 35 23·41	...	136 44 27·8	R
452		*Anon.*			
July 20	9·6	18 35 44·76	...	137 15 47·7	R
453		*Anon.*			
July 15	9·0	18 41 5·87	...	127 26 58·4	R
Aug. 24	8·9	41 5·86	...	26 59·1	M
Sep. 2	9·0	41 5·64	...	26 59·2	R
454		*O. A. S.* 18773.			
July 14	9·0	18 45 3·01	...	118 17 36·7	R
455		10 *Libræ* β^1, *Var.* 1.			
Aug. 12	...	18 45 25·71	3	56 46 57·3	M
13	...	45 25·68	...	46 55·8	M
14	...	45 25·71	...	46 57·8	M
15	...	45 25·59	...	46 56·4	M
Aug. 22	...	18 45 25·51	...	56 46 57·4	M
25	...	45 25·66	...	46 57·9	M
26	...	45 25·48	...	46 58·2	M
27	...	45 25·87	...	46 58·6	M
28	...	45 25·61	...	46 56·9	M
31	...	45 25·62	...	46 57·8	M
456		*Anon.*			
July 15	8·1	18 46 31·32	...	126 40 15·4	R
457		*Anon.*			
Sep. 4	9·0	18 48 0·89	...	116 5 32·9	R
5	9·0	48 0·90	...	5 32·5	R
7	9·1	48 0·88	...	5 32·8	R
8	9·1	48 0·76	...	5 31·1	R
10	9·2	48 0·69	...	5 33·1	R
458		*R. P. L.* 131.			
July 30	...	18 55 48·42	3	3 27 8·7	R
Sep. 2	...	55 47·94	3	27 10·4	R
10	...	55 48·97	3	27 8·0	R
12	...	55 ~~50·06~~ 43·44	3	27 9·0	R
15	...	55 ~~49·66~~ 42·55	3	27 8·2	R
16	...	55 48·23	3	27 8·6	R
459		*Anon.*			
Sep. 4	10·0	18 57 53·49	...	111 20 19·2	R
5	10·0	57 53·58	...	20 19·5	R
8	10·1	57 53·57	...	20 19·9	R
460		17 *Aquilæ* ζ			
Aug. 12	...	18 59 37·20	...	76 19 21·4	M
14	...	59 37·10	...	19 21·4	M
25	...	59 37·11	...	19 21·2	M
26	...	59 37·20	6	19 21·5	M
27	...	59 37·03	6	19 20·6	M
28	...	59 37·06	...	19 20·3	M
29	...	59 37·14	...	19 22·6	M
31	...	59 37·09	...	19 20·3	M
Sep. 3	...	59 37·08	...	19 19·8	R

46·44
48·55

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension. 1874. h. m. s.	No. of Wires.	Mean Polar Distance. 1874. ° ′ ″	Observer.
Sep. 7	...	18 59 36·97	...	76 19 20·5	R
14	...	59 37·00	...	19 19·6	R
16	...	59 37·06	...	19 18·0	R
17	...	59 37·01	...	19 18·9	R
461		*Anon.*			
July 2	9·6	19 5 49·47	...	126 27 17·6	R
14	9·5	5 49·54	...	27 19·4	R
462		*Anon.*			
July 15	9·0	19 7 47·65	...	129 46 40·9	R
463		*Anon.*			
July 30	9·4	19 9 0·06	...	129 48 3·5	R
464		*Anon.*			
Sep. 5	9·6	19 9 41·52	...	109 31 46·1	R
14	9·6	9 41·86	...	31 45·7	R
16	9·5	9 41·88	...	31 45·4	R
465		*Anon.*			
Sep. 15	8·2	19 10 3·48	...	129 46 6·3	R
17	8·5	10 3·24	...	46 9·2	R
466		*Anon.*			
Sep. 7	8·1	19 10 54·55	...	146 11 56·4	R
12	8·1	10 54·59	...	11 55·2	R
467		*O. A. S.* 19353.			
July 2	7·3	19 10 56·63	...	116 17 55·8	R
Aug. 29	7·9	10 56·50	4	17 58·2	M
468		*O. A. S.* 19366.			
July 20	8·1	19 11 15·89	...	116 16 0·8	R
469		25 *Aquilæ* ω			
Aug. 8	...	19 11 54·18	...	78 37 49·4	M
24	...	11 54·35	...	37 46·0	M
Aug. 26	...	19 11 54·11	...	78 37 48·1	M
27	...	11 54·06	...	37 47·8	M
28	...	11 54·05	...	37 46·5	M
31	...	11 54·10	...	37 48·0	M
Sep. 2	...	11 54·09	...	37 46·8	R
4	...	11 54·13	...	37 46·3	R
10	...	11 54·09	...	37 48·0	R
19	...	11 54·10	...	37 45·0	R
470		30 *Aquilæ* δ			
July 20	...	19 19 8·65	...	87 8 4·4	R
Aug. 3	...	19 8·60	...	8 6·4	M
14	...	19 8·55	5	8 5·2	M
24	...	19 8·67	...	8 4·3	M
26	...	19 8·65	...	8 5·3	M
27	...	19 8·65	...	8 5·1	M
28	...	19 8·62	...	8 4·3	M
31	...	19 8·72	...	8 6·1	M
Sep. 2	...	19 8·67	...	8 3·7	R
3	...	19 8·70	...	8 2·6	R
4	...	19 8·64	...	8 3·2	R
5	...	19 8·73	...	8 3·6	R
8	...	19 8·62	...	8 4·2	R
10	...	19 8·66	...	8 3·5	R
14	...	19 8·47	...	8 3·8	R
17	...	19 8·57	...	8 2·0	R
471		52 *Sagittarii* h^2.			
Aug. 27	...	19 29 2·03	5	115 9 35·8	M
29	...	29 2·13	...	9 35·1	M
Sept. 2	...	29 2·28	...	9 36·3	R
3	...	29 2·10	...	9 34·0	R
5	...	29 2·18	...	9 33·2	R
7	...	29 2·21	...	9 34·3	R
8	...	29 2·21	...	9 33·0	R
14	...	29 2·17	...	9 34·7	R
26	...	29 2·23	...	9 33·8	R
28	...	29 2·17	...	9 33·8	R
472		13 *Cygni* θ			
July 14	...	19 33 3·79	...	40 4 9·7	R
20	...	33 3·89	...	4 10·8	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
473		*Anon.*			
Aug. 29	9·0	19 35 3·39	6	127 15 43·9	M
474		50 *Aquilæ* γ			
Aug. 11	...	19 40 16·14	...	79 41 31·6	M
Sept. 4	...	40 16·10	...	41 30·8	R
10	...	40 16·18	...	41 30·7	R
16	...	40 16·13	...	41 30·5	R
19	...	40 16·13	...	41 29·1	R
24	...	40 16·16	...	41 31·7	R
26	...	40 16·06	...	41 31·0	R
29	...	40 16·16	...	41 31·9	R
30	...	40 16·09	...	41 31·2	R
Oct. 3	...	40 16·24	...	41 32·7	M
475		*O. A. S.* 19996.			
July 20	9·5	19 42 52·08	...	108 10 34·9	R
Sept. 2	9·5	42 51·70	...	10 35·4	R
476		*S. Vulpeculæ, Var.* 3.			
Aug. 31	8·9	19 43 13·91	...	63 1 37·5	M
477		53 *Aquilæ a, Altair.*			
Aug. 29	...	19 44 37·98	...	81 27 46·0	M
Sept. 12	...	44 38·12	...	27 42·0	R
15	...	44 38·08	...	27 43·0	R
19	...	44 38·12	...	27 43·3	R
21	...	44 38·02	...	27 44·4	R
24	...	44 38·19	...	27 46·2	R
28	...	44 38·14	...	27 44·8	R
30	...	44 38·08	...	27 45·7	R
Oct. 6	...	44 38·22	...	27 46·4	M
478		*Lacaille* 8249.			
July 14	7·5	19 44 43·01	...	122 17 47·8	R
Sept. 3	7·6	44 43·00	...	17 50·0	R

Number and Date.	Magnitude.	Mean Right Ascension. 1874. h. m. s.	No. of Wires.	Mean Polar Distance. 1874. ° ″	Observer.
479		55 *Aquilæ η, Var.* 1.			
Aug. 13	4·9	19 46 3·20	...	89 18 59·4	M
21	4·8	46 3·27	...	18 56·8	M
22	...	46 3·26	...	18 57·8	M
Sept. 4	...	46 3·40	...	18 57·5	R
7	...	46 3·46	...	18 56·6	R
14	...	46 3·55	...	18 58·0	R
480		*O. A. S.* 20055.			
Sept. 5	9·0	19 46 54·01	...	107 44 16·9	R
481		60 *Aquilæ β*			
Sept. 12	...	19 49 7·50	...	83 54 22·2	R
15	...	49 7·52	...	54 22·0	R
28	...	49 7·41	...	54 19·7	R
30	...	49 7·52	...	54 23·0	R
Oct. 3	...	49 7·43	...	54 22·6	M
482		*Anon.*			
Sept. 7	8·7	19 50 21·81	...	145 55 17·4	R
483		*O. A. N.* 20046.			
Sept. 4	9·1	20 2 52·55	...	32 21 48·9	R
5	9·2	2 52·67	...	21 49·0	R
7	9·1	2 52·58	...	21 50·5	R
10	9·4	2 52·41	...	21 49·0	R
12	9·2	2 52·60	...	21 45·6	R
14	9·2	2 52·34	...	21 49·3	R
15	9·1	2 52·66	...	21 49·4	R
484		*Anon.*			
July 14	10·0	20 5 50·79	...	74 46 38·0	R
Sept. 16	9·1	5 50·60	...	46 40·2	R
17	9·2	5 50 58	...	46 38·7	R
28	9·2	5 50·44	...	46 40·7	R
Oct. 3	9·5	5 50·66	...	46 39·4	M
5	9·4	5 50·55	6	46 42·6	M
6	9·5	5 50·80	...	46 37·1	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
485		*R. Sagittarii, Var.* 1.			
Oct. 15	9·3	20 8 19·88	...	78 39 13·1	M
16	9·4	8 19·48	...	39 12·3	M
17	9·4	8 19·50	...	39 12·1	M
19	9·4	8 19·61	...	39 10·8	M
486		5 *Capricorni* α^1			
Aug. 3	...	20 10 39·71	...	102 53 45·4	M
8	...	10 39·64	...	53 44·9	M
14	...	10 39·67	...	53 44·5	M
21	...	10 39·86	...	53 44·6	M
487		6 *Capricorni* α^2			
Aug. 29	...	20 11 3·70	...	102 56 2·1	M
Sep. 5	...	11 3·62	...	56 1·1	R
12	...	11 3·58	...	55 59·4	R
15	...	11 3·61	...	56 1·1	R
16	...	11 3·70	...	56 0·2	R
29	...	11 3·65	...	55 59·6	R
Oct. 14	...	11 3·74	...	56 0·2	M
488		7 *Capricorni* σ			
Oct. 7	...	20 12 7·34	...	109 30 36·4	M
8	...	12 7·35	...	30 34·3	M
489		*Anon.*			
Oct. 9	9·3	20 12 38·22	...	88 45 24·8	M
10	9·4	12 38·22	...	45 25·6	M
12	9·3	12 38·17	...	45 27·1	M
13	9·3	12 38·25	...	45 26·3	M
490		34 *Cygni, Var.* 1.			
Aug. 25	5·9	20 13 8·57	...	52 21 28·6	M
31	...	13 8·67	4	21 29·9	M
Sep. 2	...	13 8·50	...	21 30·5	R
4	...	13 8·63	...	21 28·3	R
7	6·0	13 8·58	...	21 28·2	R
10	6·4	13 8·75	...	21 28·2	R
491		9 *Capricorni* β			
July 14	...	20 13 55·68	...	105 10 36·9	R
492		*Anon.*			
Oct. 16	9·2	20 16 17·74	...	106 15 47·0	M
17	9·4	16 17·64	...	15 47·8	M
493		*Anon.*			
Sep. 19	9·0	20 17 28·18	...	121 9 54·6	R
494		24 *Cephei Hev, Var.* 1—*s.p.*			
Feb. 9	...	20 20 30·14	3	1 15 8·5	R
10	...	20 28·79	3	15 9·5	R
Mar. 7	...	20 31·35	3	15 7·2	R
12	...	20 30·88	3	15 8·7	R
13	...	20 31·01	3	15 8·1	R
495		11 *Capricorni* ρ			
Aug. 29	...	20 21 40·31	...	108 13 43·3	M
Sep. 2	...	21 40·16	...	13 40·1	R
7	...	21 40·28	...	13 41·8	R
8	...	21 40·23	...	13 41·0	R
17	...	21 40·37	...	13 40·2	R
Oct. 6	...	21 40·25	...	13 41·7	M
8	...	21 40·30	...	13 38·8	M
12	...	21 40·22	...	13 42·4	M
13	...	21 40·16	...	13 41·7	M
14	...	21 40·26	...	13 41·4	M
19	...	21 40·44	...	13 40·7	M
496		*Anon.*			
July 14	8·5	20 23 53·86	...	124 55 2·3	R
20	8·6	23 54·00	...	55 3·4	R
497		*R. P. L.* 143.			
Sep. 17	...	20 28 17·28	3	5 16 26·4	R
26	...	28 17·45	3	16 25·8	R
Oct. 3	...	28 16·94	3	16 27·1	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
		R. P. L.* 143—*s.p.			
Feb. 23	...	20 28 17·01	3	5 16 27·0	R
24	...	28 17·28	3	16 26·0	R
Mar. 3	...	28 16·28	3	16 28·6	M
5	...	28 17·12	3	16 28·0	M
6	...	28 16·31	3	16 29·7	M
16	...	28 16·32	3	16 28·5	R
17	...	28 16·68	3	16 26·7	R
498		***Anon.***			
Sep. 5	8·9	20 28 35·70	...	143 14 21·7	R
15	8·9	28 36·64	...	14 23·5	R
499		***Anon.***			
July 14	9·5	20 29 20·32	...	121 4 25·5	R
500		***Anon.***			
July 20	9·0	20 30 30·55	...	143 49 58·4	R
501		***Anon.***			
Sep. 12	9·7	20 31 41·02	...	125 41 33·6	R
16	9·3	31 40·93	...	41 33·8	R
19	9·6	31 40·64	...	41 33·2	R
502		***Anon.***			
July 30	9·6	20 32 9·43	...	124 38 43·6	R
Sep. 2	9·6	32 9·19	...	38 44·8	R
10	9·9	32 9·46	...	38 40·8	R
15	9·5	32 9·28	...	38 44·6	R
503		***50 Cygni a***			
Aug. 15	...	20 37 8·22	...	45 10 9·0	M
Sep. 21	...	37 8·10	...	10 8·7	R
24	...	37 8·12	...	10 8·4	R
29	...	37 8·21	...	10 8·5	R
Oct. 7	...	37 8·24	...	10 8·7	M
8	...	37 8·09	...	10 7·9	M
9	...	37 8·17	...	10 8·8	M
10	...	37 8·19	...	10 7·6	M
Oct. 15	...	20 37 8·18	...	45 10 9·3	M
16	...	37 8·11	...	10 8·6	M
17	...	37 8·11	...	10 6·3	M
21	...	37 8·18	...	10 7·6	M
22	...	37 8·18	...	10 8·1	M
504		***W. B. E.* XX. 935.**			
July 20	8·1	20 37 15·43	...	73 20 56·2	R
30	8·0	37 15·34	...	20 56·4	R
Aug. 14	9·0	37 15·42	...	20 56·5	M
18	8·9	37 15·42	4	20 55·4	M
21	...	37 15·57	4	20 55·2	M
505		***T Delphini, Var.* 3.**			
Sep. 12	10·5	20 39 31·49	...	74 3 27·9	R
15	10·5	39 31·36	...	3 27·2	R
16	10·5	39 31·30	...	3 27·3	R
506		***W. B. E.* XX. 1024.**			
Sep. 2	9·6	20 41 26·51	...	105 22 7·6	R
507		***T Aquarii, Var.* 4.**			
Sep. 17	7·2	20 43 17·36	...	95 36 46·4	R
19	9·0	43 17·32	...	36 44·1	R
26	8·0	43 17·28	...	36 45·4	R
Oct. 3	8·0	43 17·53	5	36 46·3	M
6	8·0	43 17·27	...	36 46·5	M
508		***32 Vulpeculæ.***			
Sep. 21	...	20 49 11·47	...	62 25 14·2	R
26	...	49 11·48	...	25 13·4	R
Oct. 10	...	49 11·30	...	25 13·9	M
12	...	49 11·29	...	25 15·6	M
13	...	49 11·51	...	25 15·4	M
14	...	49 11·31	...	25 13·6	M
15	...	49 11·41	...	25 13·2	M
16	..	49 11·37	...	25 13·7	M
17	...	49 11·43	...	25 15·4	M
19	...	49 11·30	...	25 14·1	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
509	*R Vulpeculæ, Var.* 3.				
Sep. 15	6·6	20 58 46·86	...	66 40 42·1	R
16	7·0	58 46·73	...	40 41·5	R
17	8·0	58 46·74	...	40 39·5	R
19	8·6	58 46·69	...	40 39·7	R
510	*Anon.*				
Sep. 3	9·7	20 59 21·86	...	148 50 18·2	R
511	*Taylor* 9772.				
July 30	8·3	21 1 11·84	...	145 4 52·5	R
512	61 *Cygni—2nd.*				
Aug. 21	...	21 1 16·57	6	51 52 18·1	M
25	...	1 16·56	...	52 16·7	M
Sep. 5	...	1 16·89	...	52 16·9	R
7	...	1 16·72	...	52 17·9	R
10	...	1 16·81	...	52 16·8	R
12	...	1 16·84	...	52 16·9	R
14	...	1 16·61	...	52 16·2	R
513	64 *Cygni* ζ				
Sep. 24	...	21 7 34·34	...	60 17 21·0	R
Oct. 3	...	7 34·32	...	17 20·6	M
5	...	7 34·38	...	17 21·5	M
6	...	7 34·34	...	17 21·7	M
8	...	7 34·44	...	17 18·5	M
9	...	7 34·31	...	17 20·6	M
17	...	7 34·46	...	17 20·7	M
19	...	7 34·32	...	17 19·2	M
21	...	7 34·41	...	17 19·4	M
22	...	7 34·39	...	17 20·0	M
31	...	7 34·39	...	17 21·1	M
Nov. 5	...	7 34·31	...	17 18·9	M
514	*Anon.*				
Sep. 14	10·6	21 8 56·84	...	110 46 40·2	R
15	10·5	8 56·91	...	46 39·9	R
515	*Anon.*				
July 30	9·7	21 14 26·32	...	128 57 47·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
516	*T Capricorni, Var.* 3.				
Sep. 2	9·3	21 14 58·87	...	105 37 39·8	R
3	9·0	14 58·87	...	37 40·4	R
10	9·4	14 59·15	...	37 39·6	R
12	9·2	14 59·24	...	37 38·6	R
517	*Anon.*				
Aug. 18	9·2	21 15 38·18	4	130 13 38·6	M
518	*Anon.*				
July 30	9·7	21 23 31·53	...	110 4 51·0	R
519	22 *Aquarii* β				
Sep. 2	...	21 24 55·33	...	96 7 25·0	R
17	...	24 55·38	...	7 25·4	R
21	...	24 55·52	...	7 27·1	R
24	...	24 55·46	...	7 27·1	R
Oct. 7	...	24 55·35	...	7 26·8	M
9	...	24 55·52	...	7 26·0	M
10	...	24 55·50	...	7 27·9	M
12	...	24 55·53	...	7 29·4	M
13	...	24 55·38	...	7 28·7	M
15	...	24 55·42	...	7 27·4	M
16	...	24 55·53	...	7 26·2	M
21	...	24 55·42	...	7 27·3	M
22	...	24 55·45	...	7 26·7	M
28	...	24 55·43	...	7 26·4	M
29	...	24 55·48	...	7 25·7	M
30	...	24 55·41	...	7 26·5	M
31	...	24 55·39	...	7 27·5	M
Nov. 5	...	24 55·38	...	7 25·9	M
520	*Anon.*				
Sep. 12	9·5	21 29 29·15	...	134 1 40·5	R
14	9·6	29 29·11	...	1 42·0	R
15	9·5	29 29·04	...	1 41·4	R
521	*Anon.*				
Sep. 3	10·0	21 35 7·88	...	102 57 22·1	R
4	10·0	35 7·98	6	57 22·7	R
7	10·2	35 7·92	...	57 23·5	R
12	10·0	35 7 90	...	57 24·0	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
522		*S Cephei, Var.* 3.			
Sep. 15	8·1	21 36 45·28	...	11 56 34·4	R
16	9·0	36 45·09	...	56 34·3	R
17	8·2	36 45·28	...	56 34·1	R
Oct. 6	8·0	36 45·42	5	56 34·6	M
7	8·0	36 44·66	...	56 34·3	M
9	8·3	36 44·62	...	56 34·4	M
523		8 *Pegasi* ϵ			
Sep. 24	...	21 37 59·87	...	80 42 5·1	R
Oct. 28	...	37 59·70	...	42 4·7	M
29	...	37 59·74	...	42 5·1	M
30	...	37 59·79	...	42 5·3	M
Nov. 2	...	37 59·62	...	42 5·2	R
524		μ *Cephei, Var.* 2.			
Aug. 18	5·9	21 39 39·47	...	31 47 49·7	M
Sep. 2	6·0	39 39·43	...	47 50·4	R
525		*Anon.*			
Nov. 5	10·3	21 41 20·73	4	102 29 42·4	M
526		*Anon.*			
Oct. 10	7·9	21 41 42·23	...	37 16 39·7	M
12	7·9	41 42·38	...	16 41·8	M
527		51 *Capricorni* μ			
Sep. 4	5·1	21 46 25·46	...	104 8 36·3	R
528		16 *Pegasi.*			
Oct. 5	...	21 47 19·80	...	64 40 2·6	M
27	...	47 19·76	...	40 0·4	M
30	...	47 19·88	...	40 1·4	M
Nov. 2	...	47 19·83	...	40 2·2	R
529		34 *Aquarii a*			
Sep. 16	...	21 59 18·64	...	90 55 51·5	R
Oct. 28	...	59 18·81	5	55 51·5	M
Nov. 2	...	59 18·86	...	55 52·2	R
11	...	59 18·62	...	55 52·3	R
530		*Anon.*			
Oct. 29	10·0	22 2 33·95	...	114 56 53·8	M
31	10·0	2 33·98	...	56 53·3	M
Nov. 4	10·0	2 33·85	...	56 50·6	M
531		*Anon.*			
Oct. 3	9·5	22 2 35·22	4	114 51 49·4	M
5	9·4	2 35·25	6	51 50·7	M
7	9·5	2 35·46	...	51 48·8	M
532		*Anon.*			
Oct. 12	9·3	22 3 46·96	...	129 2 26·9	M
13	9·4	3 46·97	...	2 26·3	M
533		*Anon.*			
Sep. 17	9·0	22 3 51·52	...	101 5 59·9	R
534		38 *Aquarii* ϵ^2			
Oct. 10	5·9	22 3 53·33	...	102 11 0·3	M
535		*Lalande* 43402.			
Sep. 2	9·0	22 8 55·07	...	99 1 20·5	R
12	9·1	8 54·95	...	1 19·9	R
15	9·2	8 54·96	...	1 18·4	R
536		43 *Aquarii* θ			
Oct. 5	...	22 10 11·01	6	98 24 36·5	M
Nov. 5	...	10 11·13	..	24 33·0	M
9	...	10 11·05	...	24 34·7	R
10	...	10 11·01	...	24 34·9	R
12	...	10 10·92	...	24 35·3	R
14	...	10 10·97	...	24 34·3	R
537		*Anon.*			
Sep. 2	9·5	22 14 53·09	...	146 31 28·5	R
12	9·6	14 53·01	...	31 26·1	R
538		*Anon.*			
Nov. 11	8·1	22 15 51·13	...	82 44 24·0	R
12	8·0	15 51·01	...	44 24·2	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
539		*Anon.*			
Sep. 17	10·1	22 16 29·50	...	82 39 35·2	R
21	10·2	16 29·11	...	39 37·4	R
540		*Anon.*			
Sep. 14	9·5	22 19 38·84	...	88 39 50·1	R
16	9·7	19 38·82	...	39 49·7	R
Oct. 12	9·9	19 38·59	...	39 51·2	M
541		*R. P. L.* 150—*s.p.*			
Feb. 20	...	22 23 1·76	5	4 31 39·6	R
21	...	23 0·95	3	31 38·2	R
542		*R. P. L.* 151.			
Sep. 21	...	22 23 27·89	3	4 24 45·5	R
Oct. 16	...	23 28·93	3	24 45·0	M
17	...	23 29·12	2	24 44·9	M
29	...	23 29·24	3	24 46·0	M
31	...	23 27·69	3	24 45·3	M
		R. P. L. 151—*s.p.*			
Feb. 25	...	22 23 28·58	3	4 24 47·0	R
28	...	23 28·79	3	24 45·7	R
Mar. 3	...	23 29·38	3	24 49·9	M
4	...	23 28·96	3	24 49·0	M
6	...	23 29·40	3	24 49·5	M
10	...	23 29·84	3	24 49·4	M
543		*Anon.*			
Sep. 2	9·5	22 25 12·74	6	179 41 36·6	R
17	9·5	25 12·65	...	41 35·1	R
Oct. 9	9·7	25 12·72	...	41 32·9	M
544		*Anon.*			
Oct. 30	9·6	22 25 18·70	...	146 47 32·1	M
Nov. 11	9·8	25 19·00	...	47 29·2	R
12	9·5	25 19·00	...	47 30·7	R
545		*R. P. L.* 153.			
Nov. 4	...	22 28 10·56	3	2 33 32·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
		R. P. L. 153—*s.p.*			
Mar. 5	...	22 28 9·80	3	2 33 31·6	M
9	...	28 11·01	2	33 30·3	M
11	...	28 11·02	3	33 33·7	M
14	...	28 10·12	3	33 30·7	R
Apl. 4	...	28 9·60	3	33 33·1	R
6	...	28 9·55	3	33 29·1	R
546		62 *Aquarii* η			
Sep. 10	...	22 28 52·78	...	90 45 57·2	R
Nov. 10	...	28 52·84	...	45 59·2	R
14	...	28 52·76	...	45 58·5	R
17	...	28 52·80	...	45 58·2	R
547		*Anon.*			
Sep. 17	9·0	22 34 53·41	...	155 28 11·8	R
548		42 *Pegasi* ζ			
Oct. 27	...	22 35 10·60	...	79 49 29·6	M
Nov. 3	...	35 10·67	...	49 29·9	R
9	...	35 10·62	...	49 32·0	R
12	...	35 10·53	...	49 33·5	R
13	...	35 10·59	...	49 31·8	R
17	...	35 10·61	...	49 30·9	R
19	...	35 10·67	...	49 33·2	R
21	...	35 10·52	...	49 31·6	R
549		*Anon.*			
Oct. 5	9·0	22 49 42·49	...	152 32 2·2	M
6	9·0	49 42·25	...	32 0·8	M
550		2 *Piscis Australis* α, *Fomalhaut*.			
Sep. 10	...	22 50 40·93	...	120 17 20·3	R
Oct. 29	...	50 41·03	...	17 21·5	M
31	...	50 41·02	...	17 21·5	M
Nov. 10	...	50 40·90	...	17 22·4	R
19	...	50 41·13	...	17 22·7	R
21	...	50 41·00	...	17 21·5	R

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
551		*Anon.*			
Sep. 7	9·0	22 52 21·18	...	85 23 15·6	R
552		*Anon.*			
Oct. 12	9·7	22 57 40·50	...	57 8 51·1	M
13	9·9	57 40·55	...	8 49·3	M
553		54 *Pegasi a, Markab.*			
Oct. 7	...	22 58 29·09	...	75 28 20·5	M
28	...	58 29·06	...	28 19·0	M
Nov. 7	...	58 29·08	...	28 19·9	R
9	...	58 29·01	...	28 19·6	R
11	...	58 29·14	...	28 19·5	R
14	...	58 29·20	...	28 19·0	R
19	...	58 28·73	...	28 16·5	R
20	...	58 29·07	...	28 17·4	R
554		*Lacaille* 9377.			
Oct. 9	7·6	23 2 49·29	...	151 14 47·4	M
555		6 *Piscium* γ			
Nov. 3	...	23 10 37·95	...	87 24 18·4	R
4	...	10 38·01	...	24 20·0	M
7	...	10 37·96	...	24 22·7	R
11	...	10 37·93	...	24 21·1	R
13	...	10 37·93	...	24 18·6	R
27	...	10 37·89	...	24 19·6	R
556		*Anon.*			
Oct. 30	9·6	23 11 41·52	...	151 12 29·3	M
31	9·5	11 41·75	...	12 30·9	M
557		*Anon.*			
Oct. 3	9·3	23 12 7·12	...	131 4 55·6	M
14	9·6	12 6·90	...	4 54·1	M
558		*Anon.*			
Oct. 15	9·5	23 12 10·96	...	129 54 37·3	M
16	9·3	12 10·67	...	54 35·6	M
17	9·3	12 10·77	...	54 37·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
559		*Anon.*			
Oct. 28	8·8	23 12 41·17	...	137 0 38·2	M
560		*Groombridge* 4040.			
Sep. 12	6·8	23 13 20·11	...	16 59 56·2	R
Oct. 29	6·1	13 20·28	...	59 57·5	M
561		*T Cephei, Var.* 4.			
Nov. 12	8·0	23 14 54·17	...	34 34 32·1	R
13	8·3	14 54·18	...	34 32·5	R
14	8·5	14 54·21	...	34 34·0	R
17	8·6	14 54·14	...	34 32·2	R
19	8·4	14 54·28	...	34 32·7	M
20	8·6	14 54·48	...	34 32·9	R
21	8·3	14 54·46	...	34 32·5	R
25	8·7	14 54·27	...	34 32·7	R
27	...	14 54·28	...	34 34·3	R
562		*Anon.*			
Nov. 3	9·8	23 16 14·61	...	130 36 28·1	R
10	10·2	16 14·62	...	36 27·5	R
11	10·3	16 14·56	...	36 27·9	R
563		*Anon.*			
Nov. 14	10·0	23 18 47·75	...	131 5 10·5	R
17	10·1	18 47·74	...	5 8·1	R
564		*Anon.*			
Nov. 12	9·6	23 20 14·87	...	109 16 3·2	R
565		*Anon.*			
Oct. 31	9·6	23 20 17·36	...	151 34 50·0	M
Nov. 4	9·6	20 17·16	5	34 48·7	M
566		8 *Piscium* κ			
Nov. 7	...	23 20 28·36	...	89 26 3·4	R
20	...	20 28·39	...	26 2·3	R
25	...	20 28·26	...	26 3·1	R
28	...	20 28·40	...	26 0·6	R
Dec. 5	...	20 28·35	3	26 1·9	M
7	...	20 28·41	5	26 1·0	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
567		*Lacaille* 9514.			
Oct. 5	8·9	23 26 25·28	...	131 32 29·1	M
568		*Anon.*			
Oct. 6	9·0	23 28 13·02	...	108 24 24·0	M
569		17 *Piscium* ι			
Nov. 3	...	23 33 28·14	...	85 3 20·8	R
25	...	33 28·23	...	3 21·5	R
27	...	33 28·09	...	3 22·4	R
28	...	33 28·14	...	3 19·7	R
30	...	33 28·11	...	3 21·0	R
Dec. 2	...	33 28·16	...	3 18·9	R
3	...	33 28·14	...	3 19·1	R
5	...	33 28·18	...	3 22·7	M
7	...	33 28·08	...	3 22·4	M
8	...	33 28·08	...	3 22·7	M
570		35 *Cephei* γ			
Oct. 8	...	23 34 12·08	...	13 4 16·5	M
7	...	34 11·67	...	4 14·3	M
10	...	34 11·53	...	4 15·7	M
13	...	34 11·20	...	4 15·3	M
14	...	34 11·51	...	4 14·5	M
571		*Anon.*			
Oct. 15	9·5	23 34 53·34	...	147 24 8·8	M
572		*Anon.*			
Nov. 12	10·1	23 35 34·66	...	107 45 48·8	R
13	10·2	35 34·82	...	45 47·2	R
20	10·0	35 34·97	...	45 47·7	R
21	10·0	35 34·91	...	45 47·5	R
573		*Anon.*			
Oct. 16	9·5	23 35 43·61	...	107 46 5·1	M
17	9·6	35 43·60	4	46 8·2	M
29	9·7	35 43·63	...	46 5·0	M
30	9·7	35 43·46	...	46 7·7	M
574		*Anon.*			
Nov. 2	9·5	23 35 59·22	...	107 51 7·9	R
4	9·9	35 59·26	...	51 9·0	M
9	10·2	35 59·34	...	51 4·6	R
17	10·1	35 59·42	...	51 6·2	R
575		*Anon.*			
Nov. 11	9·5	23 36 30·64	...	128 6 23·8	R
14	9·6	36 30·46	...	6 20·8	R
576		δ *Sculptoris.*			
Nov. 13	...	23 42 21·61	...	118 49 35·5	R
17	...	42 21·52	...	49 35·5	R
21	...	42 21·63	...	49 35·9	R
27	...	42 21·69	...	49 37·3	R
30	...	42 21·58	...	49 34·7	R
Dec. 2	...	42 21·53	...	49 36·1	R
4	...	42 21·60	...	49 36·3	R
5	...	42 21·59	...	49 37·4	M
7	...	42 21·67	...	49 37·1	M
577		*Anon.*			
Oct. 5	9·2	23 43 14·57	5	150 50 47·0	M
Nov. 3	9·5	43 14·89	...	50 43·3	R
578		*Anon.*			
Sep. 17	9·4	23 43 18·45	...	129 40 27·4	R
579		*Anon.*			
Oct. 16	9·0	23 43 34·20	...	85 18 5·9	M
17	9·0	43 34·11	...	18 7·2	M
19	9·0	43 33·94	4	18 7·7	M
29	9·0	43 34·32	...	18 5·8	M
30	9·0	43 34·03	...	18 5·6	M
580		*Anon.*			
Oct. 10	9·5	23 48 2·79	...	150 42 32·2	M

Separate Results of Madras Meridian Circle Observations in 1874.

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
581	*G. C. Z.* XXIII. 1321.				
Dec. 3	9·3	23 48 29·13	...	150 40 19·6	R
4	9·5	48 29·11	...	40 20·0	R
582	*R Cassiopeiæ, Var.* 3.				
Oct. 6	8·0	23 52 0·96	...	39 18 46·8	M
9	8·5	52 0·83	...	18 47·7	M
12	8·0	52 0·81	...	18 48·5	M
13	8·5	52 0·79	...	18 48·0	M
14	8·9	52 0·75	...	18 45·5	M
29	8·0	52 1·06	...	18 46·9	M
583	*Anon.*				
Sep. 17	8·6	23 52 16·84	...	152 17 15·8	R
584	*Anon.*				
Oct. 31	9·5	23 52 30·75	...	143 12 39·4	M
Nov. 2	9·6	52 30·69	...	12 39·2	R
585	28 *Piscium* ω				
Nov. 12	...	23 52 50·49	...	83 50 3·4	R
30	...	52 50·49	...	50 0·5	R
Dec. 1	...	52 50·53	...	50 1·5	R
4	...	52 50·50	...	50 1·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1874. h. m. s.	No. of Wires.	Mean Polar Distance 1874. ° ′ ″	Observer.
586	30 *Piscium.*				
Nov. 28	5·0	23 55 29·84	...	96 42 50·4	R
30	...	55 29·79	...	42 51·6	R
Dec. 2	4·8	55 30·02	...	42 50·1	R
3	4·8	55 29·94	...	42 48·1	R
587	*Anon.*				
Nov. 3	9·5	23 56 29·74	...	130 13 40·7	R
588	*Anon.*				
Oct. 7	9·3	23 56 57·13	...	126 40 2·0	M
8	9·4	56 57·26	...	40 0·6	M
589	*Taylor* 10997.				
Nov. 9	9·3	23 58 34·30	...	126 43 9·2	R
590	*Anon.*				
Oct. 3	9·0	23 59 6·15	...	125 49 53·3	M
31	9·2	59 6·27	...	49 53·9	M

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1874

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
1	21 Androm. α (*Alpherat*)...	2·1	...	0	1	52·56	61	36	18·3	2	0·90
2	... ...	9·2	1	0	2	23·34	127	26	40·9	1	0·79
3	... ...	9·7	1	0	5	28·90	126	14	44·7	1	0·78
4	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	44·94	75	31	0·8	4	0·87
5	... ...	9·0	1	0	19	31·75	26	33	17·5	1	0·75
6	12 Ceti	6·2	...	0	23	36·47	94	39	12·5	7	0·90
7	... ...	10·6	4	0	26	34·64	76	11	48·7	4	0·89
8	U Piscium, Var. 4. ...	9·7	5	0	36	40·96	83	22	16·7	5	0·87
9	16 Ceti β	2·1	...	0	37	15·74	108	40	42·4	6	0·94
10	R. P. L. 10	6·6	...	0	49	25·07	1	39	11·7	15	0·55
11	2 Ursæ Minoris	4·5	...	0	51	53·89	4	25	15·4	3	0·42
12	R. P. L. 14	6·2	...	0	55	10·53	3	31	36·7	10	0·82
13	71 Piscium ε	4·5	...	0	56	24·30	82	47	18·9	7	0·95
14	... ...	9·6	3	1	2	3·15·21	17	33	3·4	3	0·84
15	... ...	9·0	1	1	4	31·19	18	31	38·1	1	0·76
16	S Cassiopeiæ, Var. 4 ...	8·5	9	1	10	25·35	18	3	8·5	9	0·94
17	S Piscium, Var. 2... ...	8·9	8	1	10	59·41	81	43	59·9	10	0·89
18	R. P. L. 18	7·9	...	1	11	25·23	2	5	42·7	9	0·34
19	... ...	9·3	3	1	12	13·14·07	152	19	22·7	3	0·82
20	... ...	9·1	3	1	12	37·00	152	14	22·8	3	0·86
21	1 Urs. Min. α (*Polaris*) ...	2·2	...	1	12	37·80	1	21	47·8	1	0·28
22	45 Ceti θ^1	3·8	...	1	17	43·53	98	50	0·8	1	0·95
23	93 Piscium ρ	5·2	...	1	19	27·84	71	29	3·7	2	0·40
24	Lalande 2625	8·5	2	1	20	22·20	79	17	13·4	2	0·77
25	... ...	10·2	2	1	24	30·58	90	3	22·0	2	0·88
26	99 Piscium η	3·7	...	1	24	44·53	75	18	17·7	1	0·95
27	106 Piscium ν	4·7	...	1	34	52·59	85	9	1·3	3	0·93
28	6 Arietis β...	2·8	...	1	47	40·92	69	48	31·0	7	0·95
29	... ...	9·9	2	2	6	24·54	151	21	9·0	2	0·02
30	... ...	10·1	2	2	7	6·39	87	9	40·9	2	0·84
31	67 Ceti	5·5	...	2	10	42·03	97	0	12·8	1	0·93
32	R Ceti, Var. 2	8·0	10	2	19	37·10	90	44	53·3	10	0·05
33	73 Ceti ξ^2	4·4	...	2	21	27·68	82	6	20·3	3	0·33
34	R. P. L. 26	8·0	...	2	25	5·87	3	30	13·2	6	0·94
35	86 Ceti γ	3·6	...	2	36	46·35	87	17	45·6	17	0·20

5.—Observed for map of Gemma's Nova of 1572.
7.—Observed for map of T Piscium, Var. 3.
10.—Groombridge 144.
12.—Groombridge 195.
14.—15.—Observed for map of S Cassiopeiæ, Var. 4.
18.—Carrington 183.
24.—Comparison star for Asia in 1873.
30.—Comparison star for Camilla in 1868
34.—Carrington 352.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
1	21 Andromedæ α ...	+ 3·0781	+ 0·0182	+ 0·010	− 20·054	+ 0·013	+ 0·16	3215
2	... ...	+ 3·0616	− 0·0207	...	− 20·053	+ 0·013	...	...
3	... ...	+ 3·0487	− 0·0194	...	− 20·048	+ 0·019	...	...
4	88 Pegasi γ	+ 3·0823	+ 0·0100	− 0·001	− 20·046	+ 0·022	+ 0·01	1
5	... ...	+ 3·2999	+ 0·0710	...	− 19·981	+ 0·049	...	...
6	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·949	+ 0·055	+ 0·01	38
7	... ...	+ 3·1103	+ 0·0109	...	− 19·920	+ 0·061	...	...
8	U Piscium, Var. 4 ...	+ 3·0971	+ 0·0075	...	− 19·797	+ 0·080	...	...
9	16 Ceti β	+ 2·9991	− 0·0055	+ 0·015	− 19·790	+ 0·080	− 0·03	70
10	R. P. L. 10	+ 12·9828	+ 7·5332	+ 0·061	− 19·590	+ 0·413	+ 0·03	Main
11	2 Ursæ Minoris ...	+ 6·9546	+ 1·3311	+ 0·067	− 19·543	+ 0·236	+ 0·01	92
12	R. P. L. 14	+ 8·2581	+ 2·0616	+ 0·053	− 19·473	+ 0·296	+ 0·02	95
13	71 Piscium ε... ...	+ 3·1134	+ 0·0087	− 0·007	− 19·450	+ 0·119	− 0·04	113
14	... ...	+ 4·2028	+ 0·1622	...	− 19·324	+ 0·171	...	...
15	... ...	+ 4·1805	+ 0·1517	...	− 19·264	+ 0·177	...	...
16	S Cassiopeiæ, Var. 4.	+ 4·3129	+ 0·1632	...	− 19·115	+ 0·199	...	...
17	S Piscium, Var. 2 ...	+ 3·1314	+ 0·0100	...	− 19·100	+ 0·147	...	...
18	R. P. L. 18	+ 14·2773	+ 6·4481	...	− 19·088	+ 0·647	...	...
19	... ...	+ 2·2822	− 0·0202	...	− 19·067	+ 0·111	...	...
20	... ...	+ 2·2810	− 0·0203	...	− 19·057	+ 0·111	...	...
21	1 Urs. Min. α (*Polaris*)	+ 20·5784	+ 14·7475	+ 0·108	− 19·012	+ 0·943	+ 0·00	102
22	45 Ceti θ^1	+ 3·0031	+ 0·0018	− 0·007	− 18·912	+ 0·154	+ 0·20	184
23	93 Piscium ρ... ...	+ 3·2243	+ 0·0163	− 0·006	− 18·862	+ 0·168	− 0·03	185
24	Lalande 2625 ...	+ 3·1591	+ 0·0117	...	− 18·834	+ 0·166	...	...
25	... ...	+ 3·0711	+ 0·0063	...	− 18·706	+ 0·170	...	...
26	99 Piscium η ...	+ 3·1989	+ 0·0141	− 0·000	− 18·699	+ 0·177	+ 0·00	203
27	106 Piscium ν ...	+ 3·1178	+ 0·0091	− 0·003	− 18·361	+ 0·191	− 0·01	228
28	6 Arietis β	+ 3·2948	+ 0·0183	+ 0·005	− 17·881	+ 0·226	+ 0·10	252
29	... ...	+ 1·7897	+ 0·0006	...	− 17·081	+ 0·144	...	...
30	... ...	+ 3·1071	+ 0·0090	...	− 17·048	+ 0·246	...	...
31	67 Ceti	+ 2·9836	+ 0·0049	+ 0·004	− 16·880	+ 0·242	+ 0·11	321
32	R Ceti, Var. 2 ...	+ 3·0620	+ 0·0077	...	− 16·448	+ 0·263	...	...
33	73 Ceti ξ^2	+ 3·1795	+ 0·0117	+ 0·001	− 16·355	+ 0·276	+ 0·00	347
34	R. P. L. 26	+ 15·9925	+ 3·7049	...	− 16·168	+ 1·387	...	...
35	86 Ceti γ	+ 3·1121	+ 0·0094	− 0·011	− 15·543	+ 0·294	+ 0·16	383

10.—Proper motions from Main's list.

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	92 Ceti *a*	2·7	...	2	55	41·57	86	24	20·7	11	0·30
37	57 Arietis *δ*	4·5	...	3	4	25·59	70	45	6·5	4	0·51
38	33 Persei *α*	1·9	...	3	15	20·04	40	35	22·2	1	0·06
39	... ...	9·5	1	3	15	46·37	125	39	11·9	1	0·02
40	... ...	9·6	2	3	17	13·974	127	4	49·7	2	0·03
41	... ...	8·8	1	3	17	42·12	130	43	28·4	1	0·04
42	1 Tauri *o*, Var. 5... ...	5·7	5	3	18	1·95	81	24	57·1	5	0·01
43	... ...	9·4	1	3	21	17·16	54	45	40·9	1	0·08
44	R Persei, Var. 3	8·6	6	3	22	2·21	54	45	54·0	6	0·96
45	R. P. L. 34	5·9	...	3	25	24·30·98	3	45	17·1	4	0·49
46	... ...	10·2	1	3	33	59·31	128	28	9·9	1	0·02
47	25 Tauri *η* *(Alcyone)* ..	3·0	...	3	39	59·79	66	17	11·0	11	0·13
48	34 Eridani γ^1	3·0	...	3	52	9·03	103	52	6·0	20	0·04
49	R. P. L. 35...	6·7	...	3	57	42·54	4	46	48·4	1	0·99
50	38 Eridani o^1	4·1	...	4	5	42·91	97	10	3·8	11	0·06
51	74 Tauri *ε*...	3·7	...	4	21	15·63	71	6	4·0	10	0·06
52	... ...	10·4	1	4	22	35·77	80	26	47·6	1	0·03
53	87 Tauri *α* *(Aldebaran)* ...	1·0	...	4	28	41·49	73	44	46·4	10	0·17
54	Lacaille 1551—2nd ...	9·5	1	4	32	20·27·02	153	5	9·7	1	0·03
55	... ...	9·6	3	4	34	31·97	130	50	21·2	3	0·01
56	... ...	9·9	1	4	34	43·67	153	25	37·2	1	0·04
57	... ...	9·8	2	4	39	19·30	153	14	47·3	2	0·04
58	3 Aurigæ *ι*...	2·7	...	4	48	47·399	57	2	8·6	17	0·13
59	2 Leporis *ε*...	3·3	...	5	0	7·613	112	32	30·2	16	0·09
60	13 Aurigæ *α* *(Capella)* ...	0·2	...	5	7	22·85	44	7	59·0	1	0·06
61	19 Orionis *β* *(Rigel)* ...	0·3	...	5	8	28·95	98	20	55·3	9	0·11
62	112 Tauri *β*	1·9	...	5	18	19·71·64	61	30	5·1	18	0·10
63	... ...	10·1	3	5	20	4·19·07	129	43	34·8	3	0·03
64	R. P. L. 40...	2·1	...	5	21	50·14	4	52	30·3	1	0·53
65	34 Orionis *δ*, Var. 1 ...	2·4	...	5	25	34·16	90	23	37·6	2	0·15
66	11 Leporis *α*	2·7	...	5	27	10·341	107	54	50·6	4	0·13
67	46 Orionis *ε*	1·8	...	5	29	49·236	91	17	2·5	9	0·11
68	R. P. L. 42..	7·9	...	5	31	55·68	2	41	12·8	10	0·05
69	*α* Columbæ..	2·7	...	5	35	5·14	124	8	31·6	1	0·98
70	58 Orionis *α*.	0·9	...	5	48	20·98	82	37	5·7	13	0·20

43.—Observed for map of R Persei, Var. 3.
45.—Groombridge 642.
49.—Groombridge 750.
52.—Observed for map of R Tauri, Var. 2.
54.—56.—57.—Observed for map of R Reticuli, Var. 1.
64.—Groombridge 944.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	92 Ceti α	+ 3·1304	+ 0·0098	− 0·003	− 14·444	+ 0·323	+ 0·07	428
37	57 Arietis δ	+ 3·4086	+ 0·0171	+ 0·010	− 13·904	+ 0·364	− 0·01	446
38	33 Persei α	+ 4·2468	+ 0·0483	+ 0·002	− 13·201	+ 0·472	+ 0·03	464
39	... ...	+ 2·3490	+ 0·0012	...	− 13·172	+ 0·264	...	...
40	... ...	+ 2·3061	+ 0·0013	...	− 13·076	+ 0·261	...	...
41	... ...	+ 2·1980	+ 0·0015	...	− 13·044	+ 0·249	...	...
42	1 Tauri o, Var. 5 ...	+ 3·2257	+ 0·0115	− 0·005	− 13·022	+ 0·364	+ 0·07	477
43	... .	+ 3·7992	+ 0·0279	...	− 12·804	+ 0·431	...	...
44	R Persei, Var. 3 ...	+ 3·8010	+ 0·0278	...	− 12·753	+ 0·432	...	...
45	R. P. L. 34	+ 18·9826	+ 3·2309	+ 0·136	− 12·525	+ 2·168	+ 0·06	Gr.
46	... ...	+ 2·2183	+ 0·0022	...	− 11·930	+ 0·265	...	...
47	25 Tauri η (*Alcyone*)..	+ 3·5532	+ 0·0177	− 0·000	− 11·503	+ 0·430	+ 0·04	521
48	34 Eridani γ^1 ...	+ 2·7922	+ 0·0047	+ 0·003	− 10·617	+ 0·351	+ 0·11	546
49	R. P. L. 35	+ 16·8377	+ 1·8114	+ 0·057	− 10·200	+ 2·117	− 0·05	Gr.
50	38 Eridani o^1 ...	+ 2·9245	+ 0·0058	− 0·001	− 9·591	+ 0·379	− 0·09	568
51	74 Tauri ε	+ 3·4881	+ 0·0120	+ 0·007	− 8·376	+ 0·466	+ 0·03	609
52	... ...	+ 3·2772	+ 0·0090	...	− 8·270	+ 0·440	...	...
53	87 Tauri α (*Aldebaran*)	+ 3·4314	+ 0·0105	+ 0·004	− 7·781	+ 0·464	+ 0·18	630
54	Lacaille 1551—2nd ...	+ 0·6288	+ 0·0205	...	− 7·486	+ 0·088	...	...
55	... ...	+ 1·9959	+ 0·0040	...	− 7·306	+ 0·274	...	...
56	... ...	+ 0·5817	+ 0·0209	...	− 7·291	+ 0·082	...	...
57	... ...	+ 0·5829	+ 0·0199	...	− 6·914	+ 0·083	...	...
58	3 Aurigæ ι	+ 3·8977	+ 0·0144	+ 0·001	− 6·131	+ 0·544	+ 0·00	677
59	22 Leporis ε	+ 2·5361	+ 0·0033	+ 0·000	− 5·180	+ 0·359	+ 0·07	713
60	13 Aurigæ α (*Capella*)	+ 4·4140	+ 0·0173	+ 0·008	− 4·564	+ 0·629	+ 0·42	722
61	19 Orionis β (*Rigel*)...	+ 2·8809	+ 0·0040	− 0·001	− 4·470	+ 0·412	+ 0·01	736
62	112 Tauri β	+ 3·7861	+ 0·0082	+ 0·001	− 3·626	+ 0·545	+ 0·18	756
63	... ...	+ 1·9780	+ 0·0034	...	− 3·476	+ 0·285	...	...
64	R. P. L. 40	+ 18·5304	+ 0·6397	...	− 3·324	+ 2·667	...	...
65	34 Orionis δ	+ 3·0631	+ 0·0038	− 0·001	− 3·001	+ 0·443	+ 0·01	787
66	11 Leporis α	+ 2·6444	+ 0·0029	− 0·001	− 2·863	+ 0·383	− 0·01	796
67	46 Orionis ε	+ 3·0425	+ 0·0035	− 0·002	− 2·633	+ 0·441	− 0·01	809
68	R. P. L. 42	+ 31·3502	+ 1·4978	...	− 2·445	+ 4·541	...	...
69	α Columbæ	+ 2·1709	+ 0·0027	+ 0·005	− 2·176	+ 0·316	+ 0·03	Stone
70	58 Orionis α	+ 3·2452	+ 0·0027	+ 0·001	− 1·019	+ 0·473	+ 0·02	860

45—49.—Proper motions from *Greenwich Catalogue* 1872.
69.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	... ...	10·3	2	5	50	30·21	137	10	12·6	2	0·04
72	... ...	9·6	3	5	52	4·61	140	36	31·4	3	0·03
73	... ...	9·7	1	5	52	29·04	141	46	0·1	1	0·06
74	... ...	9·6	1	5	54	50·49	137	45	13·2	1	0·06
75	... ...	9·5	1	5	55	9·40	121	31	0·1	1	0·01
76	R. P. L. 43	6·6	...	5	56	27·57	3	14	16·7	9	0·31
77	... ...	9·2	3	6	0	13·60	121	34	34·1	3	0·10
78	67 Orionis *ν*	4·4	...	6	0	22·74	75	13	6·9	6	0·15
79	Lalande 12072—1st ...	7·6	3	6	13	59·77	68	51	27·5	3	0·96
80	13 Geminorum *μ*	3·2	...	6	15	20·26	67	25	26·6	6	0·29
81	24 Geminorum *γ*	2·0	...	6	30	26·07	73	29	43·6	1	0·16
82	Bonn +8°.1429	9·2	5	6	32	22·80	81	7	28·2	5	0·13
83	9 Canis Maj. *α* (*Sirius*) ...	− 1·4	...	6	39	35·58	106	32	44·5	1	0·16
84	51 Cephei	5·3	...	6	40	44·97	2	45	53·2	2	0·58
85	... ...	8·5	5	6	42	56·63	130	36	59·3	5	0·17
86	21 Canis Majoris *ε* ...	1·5	...	6	53	40·47	118	48	5·8	1	0·20
87	23 Canis Majoris *γ* ...	4·1	...	6	58	3·50	105	26	55·0	6	0·18
88	R Canis Min., Var. 1 ...	8·2	1	7	1	46·71	79	46	45·2	1	0·04
89	Bonn +38°.1778... ...	9·6	4	7	24	5·84	51	58	38·6	4	0·13
90	... ...	10·5	4	7	24	12·18	41	55	53·9	4	0·15
91	Bonn +48°.1546... ...	9·7	4	7	24	17·51	42	1	59·1	4	0·08
92	66 Gemin. *α*^{1} (*Castor*—1*st*)	2·0	...	7	26	33·22	57	50	18·7	10	0·21
93	66 Gemin. *α*^{2} (*Castor*—2*nd*)	2·8	...	7	26	33·53	57	50	15·1	4	0·17
94	R. P. L. 45	7·2	...	7	27	47·47	1	0	14·9	7	0·35
95	10 Canis Min. *α* (*Procyon*)	0·5	...	7	32	42·28	84	27	12·3	13	0·18
96	... ...	9·8	2	7	34	39·54	68	10	13·4	2	0·11
97	... ...	10·5	2	7	35	6·84	68	26	14·6	2	0·14
98	... ...	9·9	1	7	35	17·37	68	11	9·6	2	0·12
99	... ...	10·0	2	7	35	46·32	66	17	15·9	2	0·14
100	78 Geminorum *β* (*Pollux*)	1·1	...	7	37	36·29	61	40	18·6	5	0·17
101	... ...	8·6	1	7	37	53·67	130	59	26·8	1	0·07
102	... ...	10·6	3	7	37	56·94	68	30	58·1	3	0·21
103	... ...	10·4	5	7	38	22·85	68	29	54·1	5	0·20
104	... ...	9·0	1	7	41	53·40	148	9	45·9	1	0·07
105	... ...	9·1	2	7	42	17·29	152	59	21·5	2	0·10

76.—Groombridge 1004.
82.—Observed for map of R Monocerotis, Var. 1.
94.—Groombridge 1119.
99.—Observed for map of 3 Geminorum, Var. 3.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
71	... ...	+ 1·6311	+ 0·0030	...	− 0·830	+ 0·238	...	...
72	... ...	+ 1·4450	+ 0·0031	...	− 0·693	+ 0·211	...	...
73	... ...	+ 1·3761	+ 0·0031	...	− 0·657	+ 0·201	...	...
74	... ...	+ 1·6006	+ 0·0028	...	− 0·493	+ 0·233	...	...
75	... ...	+ 2·2525	+ 0·0024	...	− 0·424	+ 0·329	...	...
76	R. P. L. 43	+ 26·7016	+ 0·1003	...	− 0·304	+ 3·894	...	...
77	... ...	+ 2·2504	+ 0·0023	...	+ 0·020	+ 0·328	...	...
78	67 Orionis ν	+ 3·4250	+ 0·0017	− 0·000	+ 0·033	+ 0·500	+ 0·01	887
79	Lalande 12072—1st...	+ 3·5882	0·0000	...	+ 1·224	+ 0·522	...	...
80	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·341	+ 0·527	+ 0·10	929
81	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·655	+ 0·500	+ 0·04	969
82	Bonn +8°. 1429 ...	+ 3·2789	− 0·0008	...	+ 2·824	+ 0·472	...	...
83	9 Canis Majoris α ...	+ 2·6809	+ 0·0010	− 0·037	+ 3·447	+ 0·384	+ 1·20	994
84	51 Cephei	+ 30·3210	− 2·0620	...	+ 3·547	+ 4·350	...	...
85	... ...	+ 1·9458	+ 0·0013	...	+ 3·736	+ 0·277	...	...
86	21 Canis Majoris ϵ ...	+ 2·3572	+ 0·0013	− 0·001	+ 4·654	+ 0·332	− 0·02	1023
87	23 Canis Majoris γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·026	+ 0·381	+ 0·00	1028
88	R. Can. Min., Var. 1...	+ 3·3046	− 0·0031	...	+ 5·341	+ 0·463	...	...
89	Bonn + 38°. 1778 ...	+ 4·0480	− 0·0165	...	+ 7·196	+ 0·549	...	...
90	... ...	+ 4·4613	− 0·0259	...	+ 7·203	+ 0·604	...	...
91	Bonn +48°. 1546 ...	+ 4·4562	− 0·0256	...	+ 7·210	+ 0·605	...	...
92	66 Geminorum α^1 ...	+ 3·8536	− 0·0133	− 0·015	+ 7·396	+ 0·519	+ 0·08	1087
93	66 Geminorum α^2 ...	+ 3·8536	− 0·0133	− 0·015	+ 7·396	+ 0·519	+ 0·08	1087
94	R. P. L. 45	+ 73·8239	− 30·0114	− 0·323	+ 7·496	+ 9·983	− 0·01	Gr.
95	10 Canis Minoris α ...	+ 3·1915	− 0·0041	− 0·047	+ 7·893	+ 0·425	+ 1·03	1106
96	... ...	+ 3·5627	− 0·0094	...	+ 8·049	+ 0·473	...	...
97	... ...	+ 3·5558	− 0·0093	...	+ 8·085	+ 0·472	...	...
98	... ...	+ 3·5617	− 0·0095	...	+ 8·100	+ 0·472	...	...
99	... ...	+ 3·6087	− 0·0131	...	+ 8·138	+ 0·479	...	...
100	78 Geminorum β ...	+ 3·7285	− 0·0128	− 0·048	+ 8·285	+ 0·491	+ 0·05	1112
101	... ...	+ 2·0149	+ 0·0008	...	+ 8·308	+ 0·264	...	...
102	... ...	+ 3·5510	− 0·0095	...	+ 8·311	+ 0·468	...	...
103	... ...	+ 3·5513	− 0·0097	...	+ 8·346	+ 0·467	...	...
104	... ...	+ 1·1283	− 0·0078	...	+ 8·626	+ 0·145	...	...
105	... ...	+ 0·7064	− 0·0158	...	+ 8·656	+ 0·089	...	...

94.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
106	R. P. L. 49	6·7	...	7	46	28·66·49	5	35	10·5	11	0·63
107	Brisbane 1791	8·4	1	7	46	32·69	144	26	9·4	1	0·17
108	... ...	9·0	5	7	50	4·7[illegible]	130	23	34·0	5	0·20
109	... ...	8·6	4	7	50	47·3[illegible]	129	24	13·8	4	0·19
110	... ...	9·5	4	7	51	47·95	151	38	28·9	4	0·23
111	Lacaille 3082	7·7	4	7	52	3·60	130	24	4·8	4	0·23
112	... ...	10·0	1	7	52	17·84	151	42	5·0	1	0·22
113	... ...	8·4	2	7	53	8·3[illegible]0	144	43	16·9	2	0·08
114	6 Cancri	5·0	...	7	55	46·64	61	51	16·5	2	0·18
115	... ...	10·0	1	8	0	42·78	78	29	30·5	1	0·15
116	... ...	9·2	3	8	1	40·61·44	69	5	42·4	3	0·10
117	... ...	10·0	1	8	1	59·5[illegible]	69	14	46·3	1	0·11
118	15 Argûs	2·9	...	8	2	10·62	113	56	32·7	7	0·20
119	... ...	9·3	1	8	11	2·28	77	39	35·2	1	0·08
120	... ...	9·5	2	8	13	18·60[illegible]	130	47	24·7	2	0·13
121	... ...	9·3	1	8	13	41·75	131	43	0·1	1	0·15
122	... ...	9·6	4	8	13	48·12	131	44	51·3	4	0·22
123	33 Cancri η	5·5	...	8	25	25·23	69	7	56·8	7	0·21
124	... ...	9·9	3	8	26	11·5[illegible]	61	49	42·4	3	0·11
125	... ...	9·0	1	8	29	22·18	70	42	41·6	1	0·14
126	Taylor 3710	8·0	1	8	31	41·68	141	23	7·6	1	0·15
127	11 Hydræ ϵ	3·6	...	8	40	6·15	83	7	12·4	13	0·21
128	R. P. L. 60	7·0	...	8	48	40·68	5	19	8·2	5	0·46
129	... ...	8·7	1	8	54	19·21	132	57	54·4	1	0·17
130	82 Cancri π^2	7·2	1	9	8	16·60	74	32	16·6	1	0·16
131	... ...	9·6	2	9	11	28·23·17	70	43	15·2	2	0·12
132	83 Cancri	6·6	...	9	11	56·80	71	45	42·6	6	0·23
133	... ...	9·8	1	9	13	29·76[illegible]	70	34	39·7	1	0·13
134	... ...	9·4	3	9	16	38·50	139	3	32·7	3	0·14
135	... ...	7·8	1	9	20	2·2[illegible]6	75	9	3·8	1	0·11
136	... ...	8·7	1	9	20	8·68·71	125	23	44·2	1	0·14
137	... ...	8·4	2	9	20	46·07	137	30	30·3	2	0·15
138	... ...	8·4	1	9	20	51·93	125	25	31·8	1	0·16
139	... ...	9·0	2	9	21	0·1[illegible]7	158	40	48·1·[illegible]	1	0·16
140	30 Hydræ α, Var. 2 ...	2·0	...	9	21	23·67	98	6	48·1	11	0·25

106.—Groombridge 1359.
124.—Comparison star for Isis in 1870.
125.—Observed for map of U Cancri, Var. 4.
128.—Carrington 1286.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
106	R. P. L. 49	+ 15·2928	− 1·2342	...	+ 8·986	+ 1·990	...	...
107	Brisbane 1791 ...	+ 1·4007	− 0·0043	...	+ 8·991	+ 0·179	...	...
108	... ...	+ 2·0632	+ 0·0010	...	+ 9·266	+ 0·263	...	...
109	... ...	+ 2·0996	+ 0·0011	...	+ 9·321	+ 0·267	...	...
110	... ...	+ 0·8843	− 0·0135	...	+ 9·399	+ 0·110	...	...
111	Lacaille 3082 ...	+ 2·0676	+ 0·0010	...	+ 9·420	+ 0·262	...	...
112	... ...	+ 0·8812	− 0·0137	...	+ 9·438	+ 0·109	....	...
113	... ...	+ 1·4091	− 0·0044	...	+ 9·503	+ 0·177	...	...
114	6 Cancri	+ 3·6980	− 0·0148	− 0·003	+ 9·705	+ 0·468	+ 0·04	1149
115	... ...	+ 3·3072	− 0·0074	...	+ 10·081	+ 0·413	...	...
116	... ...	+ 3·5125	− 0·0114	...	+ 10·154	+ 0·438	...	...
117	... ...	+ 3·5087	− 0·0114	...	+ 10·178	+ 0·437	...	...
118	15 Argûs	+ 2·5609	+ 0·0009	− 0·008	+ 10·192	+ 0·318	− 0·06	1170
119	... ...	+ 3·3183	− 0·0082	...	+ 10·851	+ 0·403	...	...
120	... ...	+ 2·1084	+ 0·0013	...	+ 11·018	+ 0·252	...	...
121	... ...	+ 2·0774	+ 0·0015	...	+ 11·046	+ 0·248	...	...
122	... ...	+ 2·0767	+ 0·0015	...	+ 11·055	+ 0·248	...	...
123	33 Cancri η	+ 3·4826	− 0·0129	− 0·004	+ 11·888	+ 0·404	+ 0·05	1207
124	... ...	+ 3·6474	− 0·0176	...	+ 11·943	+ 0·423	...	...
125	... ...	+ 3·4442	− 0·0124	...	+ 12·165	+ 0·395	...	...
126	Taylor 3710	+ 1·7519	− 0·0006	...	+ 12·326	+ 0·197	...	...
127	11 Hydræ ϵ	+ 3·1957	− 0·0071	− 0·014	+ 12·897	+ 0·351	+ 0·02	1243
128	R. P. L. 60	+ 13·7156	− 1·7166	...	+ 13·463	+ 1·476	...	...
129	... ...	+ 2·1702	+ 0·0037	...	+ 13·824	+ 0·224	...	...
130	82 Cancri π^2	+ 3·3242	− 0·0117	− 0·003	+ 14·683	+ 0·325	− 0·02	1304
131	... ...	+ 3·3859	− 0·0140	...	+ 14·872	+ 0·326	...	...
132	83 Cancri	+ 3·3670	− 0·0134	− 0·009	+ 14·900	+ 0·323	+ 0·14	1309
133	... .	+ 3·3853	− 0·0142	...	+ 14·991	+ 0·322	...	...
134	... ...	+ 2·0643	+ 0·0048	...	+ 15·171	+ 0·190	...	...
135	... ...	+ 3·3001	− 0·0116	...	+ 15·364	+ 0·303	...	...
136	... ...	+ 2·4620	+ 0·0056	...	+ 15·371	+ 0·224	...	...
137	... ...	+ 2·1379	+ 0·0057	...	+ 15·405	+ 0·193	...	...
138	... ...	+ 2·4637	+ 0·0057	...	+ 15·412	+ 0·223	...	...
139	... ...	+ 0·8818	− 0·0285	...	+ 15·419	+ 0·076	...	...
140	30 Hydræ α, Var. 2 ...	+ 2·9505	− 0·0013	− 0·002	+ 15·441	+ 0·268	− 0·05	1330

Mean Positions of Stars for 1874, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
141	25 Ursæ Majoris θ ...	3·2	...	9	24	25·20	37	44	56·5	2	0·17
142	... ...	9·4	1	9	24	29·78	158	43	22·3	1	0·14
143	R. P. L. 69	7·9	...	9	36	5·04	2	49	30·8	8	0·62
144	17 Leonis ε	3·1	...	9	38	41·77	65	38	49·3	10	0·25
145	... ...	9·5	1	9	44	28·23	148	32	41·0	1	0·14
146	R. P. L. 70	5·0	...	9	48	6·29	5	28	39·2	4	0·78
147	... ...	9·8	1	9	48	50·71	152	10	28·6	1	0·20
148	W. B. N. IX. 1020... ...	9·0	2	9	49	0·54	71	51	41·7	1	0·15
149	W. B. N. IX. 1047... ...	8·9	2	9	50	5·64	72	20	46·0	2	0·11
150	... ...	9·7	6	9	51	8·64	72	33	32·1	7	0·18
151	... ...	9·6	1	9	52	48·97	72	4	26·6	1	0·14
152	29 Leonis π	5·0	...	9	53	33·24	81	21	7·8	7	0·27
153	W. B. N. IX. 1160... ...	9·0	4	9	55	39·62	73	20	32·8	4	0·15
154	... ...	10·1	5	9	55	41·20	72	20	51·3	5	0·22
155	... ...	9·9	1	9	56	23·40	130	0	17·2	1	0·16
156	W. B. N. IX. 1189... ...	9·7	4	9	57	0·32	73	10	31·5	4	0·18
157	... ...	9·0	1	9	58	8·66	145	35	55·7	1	0·24
158	W. B. N. IX. 1230... ...	9·6	4	9	58	25·70	72	55	24·3	4	0·22
159	... ...	8·9	2	9	58	30·55	143	56	59·6	2	0·19
160	14 Sextantis	7·0	3	10	0	12·15	83	46	28·4	3	0·16
161	W. B. N. IX. 1282... ...	9·0	1	10	0	51·41	73	6	31·4	1	0·14
162	32 Leonis α (*Regulus*) ...	1·4	...	10	1	39·59	77	25	4·2	8	0·29
163	33 Leonis	8·5	1	10	3	53·69	73	40	30·1	1	0·16
164	R. P. L. 72...	6·0	...	10	10	59·32	5	6	35·3	3	0·14
165	41 Leonis γ^1	2·5	...	10	13	1·35	69	31	18·8	7	0·27
166	47 Leonis ρ	4·0	...	10	26	10·51	80	2	42·7	5	0·30
167	53 Leonis *l*	5·3	...	10	42	38·00	78	47	17·7	8	0·29
168	... ...	9·9	1	10	42	54·40	75	7	59·5	1	0·17
169	... ...	8·6	1	10	43	1·98	141	7	37·5	1	0·17
170	... ...	10·1	3	10	47	59·00	148	51	45·3	2	0·32
171	R Crateris, Var. 1 ...	9·0	2	10	54	21·69	107	38	56·8	2	0·21
172	... ...	9·1	1	10	54	31·66	107	41	27·6	1	0·20
173	R. P. L. 79	7·7	...	10	58	4·46	1	40	36·0	6	0·40
174	63 Leonis χ	4·7	...	10	58	31·00	81	58	59·2	5	0·27
175	Taylor 5092	8·7	2	11	5	45·24	143	52	23·6	2	0·17

143.—Carrington 1418.
146.—Carrington 1451.
148—149—150—151—153—154—156—158—161.—Comparison stars for Mars in 1869.
160.—Comparison star for Ariadne in 1873.
164.—Groombridge 1620.
170.—Observed for map of η Argûs.
172.—Observed for map of R Crateris, Var. 1.
173.—Groombridge 1639.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
141	25 Ursæ Majoris θ ...	+ 4·1564	− 0·0561	− 0·104	+ 15·608	+ 0·374	+ 0·56	1332
142	... ...	+ 0·9175	− 0·0275	...	+ 15·612	+ 0·077	...	...
143	R. P. L. 69	+ 18·9881	− 5·5751	...	+ 16·229	+ 1·620	...	...
144	17 Leonis ε	+ 3·4221	− 0·0180	− 0·004	+ 16·362	+ 0·282	+ 0·01	1368
145	... ...	+ 1·8538	+ 0·0047	...	+ 16·649	+ 0·144	...	...
146	R. P. L. 70	+ 10·6602	− 1·5648	...	+ 16·824	+ 0·839	...	...
147	... ...	+ 1·7006	+ 0·0017	...	+ 16·860	+ 0·128	...	...
148	W. B. N. IX. 1020 ...	+ 3·3092	− 0·0137	...	+ 16·867	+ 0·255	...	...
149	W. B. N. IX. 1047 ...	+ 3·3007	− 0·0133	...	+ 16·918	+ 0·251	...	...
150	... ...	+ 3·2961	− 0·0131	...	+ 16·967	+ 0·250	...	...
151	... ...	+ 3·3001	− 0·0134	...	+ 17·045	+ 0·247	...	...
152	29 Leonis π	+ 3·1788	− 0·0080	− 0·004	+ 17·079	+ 0·236	+ 0·01	1398
153	W. B. N. IX. 1160 ...	+ 3·2787	− 0·0127	...	+ 17·175	+ 0·240	...	...
154	... ...	+ 3·2918	− 0·0132	...	+ 17·176	+ 0·241	...	...
155	... ...	+ 2·4960	+ 0·0097	...	+ 17·207	+ 0·180	...	...
156	W. B. N. IX. 1189 ...	+ 3·2789	− 0·0127	...	+ 17·235	+ 0·238	...	...
157	... ...	+ 2·0824	+ 0·0099	...	+ 17·285	+ 0·147	...	...
158	W. B. N. IX. 1230 ...	+ 3·2800	− 0·0129	...	+ 17·298	+ 0·235	...	...
159	... ...	+ 2·1435	+ 0·0105	...	+ 17·302	+ 0·151	...	...
160	14 Sextantis	+ 3·1449	− 0·0066	− 0·005	+ 17·377	+ 0·222	− 0·02	1404
161	W. B. N. IX. 1282 ...	+ 3·2739	− 0·0127	...	+ 17·405	+ 0·231	...	...
162	32 Leonis α	+ 3·2195	− 0·0102	− 0·018	+ 17·440	+ 0·225	− 0·02	1406
163	33 Leonis	+ 3·2622	− 0·0123	+ 0·005	+ 17·536	+ 0·223	+ 0·01	Gr.
164	R. P. L. 72	+ 9·9189	− 1·6270	− 0·096	+ 17·828	+ 0·655	− 0·04	1399
165	41 Leonis γ^1	+ 3·2968	− 0·0148	+ 0·021	+ 17·909	+ 0·208	+ 0·14	1432
166	47 Leonis ρ	+ 3·1656	− 0·0080	− 0·001	+ 18·397	+ 0·176	− 0·01	1467
167	53 Leonis l	+ 3·1600	− 0·0080	− 0·002	+ 18·923	+ 0·145	+ 0·02	1500
168	... ...	+ 3·1894	− 0·0104	...	+ 18·931	+ 0·147	...	...
169	... ...	+ 2·5257	+ 0·0205	...	+ 18·934	+ 0·114	...	...
170	... ...	+ 2·3882	+ 0·0245	...	+ 19·072	+ 0·100	...	...
171	R Crateris, Var. 1 ...	+ 2·9522	+ 0·0068	...	+ 19·238	+ 0·114	...	...
172	... ...	+ 2·9521	+ 0·0069	...	+ 19·242	+ 0·114	...	...
173	R. P. L. 79	+ 15·2624	− 8·7944	...	+ 19·327	+ 0·586	...	...
174	63 Leonis χ	+ 3·1221	− 0·0056	− 0·026	+ 19·337	+ 0·113	+ 0·02	1535
175	Taylor 5092	+ 2·6427	+ 0·0276	...	+ 19·495	+ 0·083	...	...

163.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
176	... ...	9·9	1	11	6	12·26	83	53	41·3	1	0·20
177	68 Leonis δ	2·8	...	11	7	24·26	68	47	11·2	3	0·30
178	73 Leonis *n*	5·5	...	11	9	16·27	76	0	19·6	4	0·18
179	... ...	9·9	1	11	9	55·34	145	58	31·1	1	0·19
180	... ...	9·7	2	11	10	59·48	141	11	51·5	2	0·20
181	12 Crateris δ	3·9	...	11	13	2·54	104	5	49·3	2	0·30
182	... ...	9·2	...	11	23	39·72·40	142	55	53·4	1	0·18
183	Cordoba 15790	8·7	2	11	27	4·65·15	151	7	23·0	2	0·19
184	... ...	9·9	2	11	27	10·80·40	151	44	51·0	2	0·20
185	... ...	10·0	1	11	27	14·88	23	20	52·6	1	0·20
186	... ...	9·1	2	11	27	31·91	23	0	49·5	3	0·21
187	94 Leonis β	2·2	...	11	42	37·86	74	43	24·9	1	0·38
188	Bonn +5°. 2550	9·8	2	11	44	38·1906	84	48	9·5	2	0·19
189	Groombridge 1830. ...	7·8	4	11	45	42·94	51	22	39·9	5	0·23
190	64 Ursæ Majoris γ ...	2·6	...	11	47	11·82	35	36	15·1	1	0·26
191	Bonn +4°. 2550	10·1	3	11	51	3·99	85	22	40·4	3	0·25
192	R. P. L. 87...	8·0	...	11	52	57·24	2	18	14·6	7	0·40
193	Bonn +3°. 2592	9·0	1	11	57	47·71·67	86	23	41·0	1	0·19
194	R. P. L. 89...	6·3	...	11	58	23·62	3	42	54·2	1	0·83
195	W. B. E. XI. 986	9·0	1	11	58	38·45·38	85	55	18·8	1	0·20
196	9 Virginis o..	4·3	...	11	58	47·56	80	34	1·3	3	0·24
197	2 Corvi ε	3·1	...	12	3	38·85	111	55	7·4	5	0·35
198	... ...	9·0	1	12	4	9·47	146	0	24·0	1	0·20
199	... ...	9·0	...	12	4	20·93	145	59	43·4	1	0·20
200	... ...	9·1	4	12	6	38·53	110	2	10·2	4	0·25
201	... ...	9·0	3	12	6	59·96	150	29	40·0	3	0·30
202	... ...	9·5	3	12	6	59·99	142	54	2·3	3	0·28
203	R. P. L. 90...	7·7	...	12	7	17·93·53	2	22	1·7	12	0·71
204	... ...	9·4	1	12	8	8·16·21	90	17	34·9	2	0·20
205	69 Ursæ Majoris δ ...	3·4	...	12	9	11·03	32	16	2·6	1	0·30
206	... ...	9·8	3	12	9	25·63	97	16	44·6	3	0·38
207	Lalande 22983	8·5	2	12	9	37·78	96	45	57·2	2	0·27
208	Lalande 22993	8·6	1	12	9	53·60	96	49	51·7	1	0·21
209	W. B. E. XII. 139.. .	9·2	3	12	10	41·15	87	35	14·2	3	0·33
210	W. B. E. XII. 155... ...	8·4	3	12	11	31·02	87	43	27·1	3	0·25

185.—Comparison star for Comet in 1861.
188—191—193—195—209—210.—Comparison stars for Mars in 1871.
194.—Groombridge 1850.
200.—Comparison star for Julia 1873.
203.—Carrington 1816.
206—207—208.—Comparison stars for Ariadne in 1870.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	... ...	+ 3·1055	− 0·0043	...	+19·504	+ 0·098	...	...
177	68 Leonis δ	+ 3·1902	− 0·0132	+ 0·010	+19·529	+ 0·098	+ 0·12	1546
178	73 Leonis n	+ 3·1452	− 0·0049	− 0·002	+19·566	+ 0·043	+ 0·02	1550
179	... ...	+ 2·6430	+ 0·0304	...	+19·577	+ 0·076	...	...
180	... ...	+ 2·7194	+ 0·0273	...	+19·597	+ 0·077	...	...
181	12 Crateris δ... ...	+ 3·0039	+ 0·0064	− 0·011	+19·635	+ 0·081	− 0·21	1557
182	... ...	+ 2·7928	+ 0·0318	...	+19·803	+ 0·056	...	...
183	Cordoba 15790 ...	+ 2·7251	+ 0·0415	...	+19·847	+ 0·049	...	...
184	... ...	+ 2·7171	+ 0·0425	...	+19·849	+ 0·048	...	...
185	... ...	+ 3·5133	− 0·0889	...	+19·850	+ 0·065	...	...
186	... ...	+ 3·5166	− 0·0899	...	+19·854	+ 0·063	...	...
187	94 Leonis β ...	+ 3·0999	− 0·0074	− 0·036	+19·997	+ 0·025	+ 0·10	1605
188	Bonn +5°. 2550 ...	+ 3·0803	− 0·0017	...	+20·010	+ 0·021	...	...
189	Groombridge 1830 ...	+ 3·1387	− 0·0237	+ 0·346	+20·016	+ 0·019	+ 5·78	Gr.
190	64 Ursæ Majoris γ ...	+ 3·1764	− 0·0433	+ 0·010	+20·024	+ 0·017	− 0·01	1608
191	Bonn +4°. 2550 ..	+ 3·0764	− 0·0016	...	+20·039	+ 0·008	...	...
192	R. P. L. 87	+ 4·0935	− 1·2344	...	+20·045	+ 0·009	...	...
193	Bonn +3°. 2592 ...	+ 3·0730	− 0·0001	...	+20·054	+ 0·005	...	...
194	R. P. L. 89	+ 3·2165	− 0·5016	...	+20·054	− 0·006	...	...
195	W. B. E. XI. 986 ...	+ 3·0728	− 0·0003	...	+20·054	+ 0·006	...	...
196	9 Virginis o	+ 3·0733	− 0·0032	− 0·016	+20·054	− 0·007	− 0·05	1623
197	2 Corvi ε	+ 3·0808	+ 0·0142	− 0·006	+20·052	− 0·016	− 0·02	1626
198	... ...	+ 3·1082	+ 0·0473	...	+20·051	− 0·016	...	...
199	... ...	+ 3·1098	+ 0·0474	...	+20·050	− 0·017	...	...
200	... ...	+ 3·0863	+ 0·0132	...	+20·046	− 0·022	...	...
201	... ...	+ 3·1444	+ 0·0574	...	+20·046	− 0·022	...	...
202	... ...	+ 3·1263	+ 0·0430	...	+20·046	− 0·022	...	...
203	R. P. L. 90	+ 2·0406	− 0·2343	...	+20·044	− 0·018	...	...
204	... ...	+ 3·0725	+ 0·0024	...	+20·041	− 0·024	...	...
205	69 Ursæ Majoris δ ...	+ 2·9875	− 0·0425	+ 0·013	+20·038	− 0·026	− 0·00	1637
206	... ...	+ 3·0791	+ 0·0062	...	+20·038	− 0·027	...	...
207	Lalande 22983 ...	+ 3·0788	+ 0·0059	...	+20·037	− 0·027	...	...
208	Lalande 22993 ...	+ 3·0790	+ 0·0061	...	+20·036	− 0·028	...	...
209	W. B. E. XII. 139 ..	+ 3·0696	+ 0·0012	...	+20·032	− 0·030	...	...
210	W. B. E. XII. 155 ...	+ 3·0695	+ 0·0014	...	+20·029	− 0·032	...	...

189.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1874, *January* 1*st.*

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	13 Virginis	6·2	1	12	12	12·58	90	5	10·6	1	0·28
212	....	8·7	2	12	13	24·71	108	34	27·4	2	0·25
213	15 Virginis η	4·0	...	12	13	27·57	89	57	57·2	4	0·37
214	.. ..	10·0	...	12	19	11·35	143	33	27·2	1	0·20
215	α Crucis—1st	1·0	...	12	19	35·59	152	23	57·3	1	0·27
216	... ...	9·2	...	12	20	24·32	124	17	27·9	1	0·21
217	O. A. S. 12164	8·1	5	12	20	29·48	111	41	34·5	5	0·30
218	.. ..	8·0	1	12	21	39·41	145	45	37·5	1	0·22
219	... ...	9·4	3	12	24	25·12	91	43	9·9	3	0·23
220	... ...	10·0	1	12	25	8·37	151	48	19·0	2	0·26
221	... ...	9·7	4	12	27	44·61	38	3	43·5	4	0·28
222	9 Corvi β	2·8	...	12	27	46·23	112	41	57·7	4	0·39
223	... ...	9·0	2	12	28	22·24	140	58	52·4	2	0·23
224	... ...	9·0	1	12	33	22·52	143	10	40·6	1	0·21
225	29 Virginis γ^2 (*S.*) ...	3·5	...	12	35	16·66	90	45	31·5	4	0·27
226	29 Virginis γ^1 (*N.*) ...	3·5	...	12	35	16·99	90	45	32·0	1	0·22
227	R. P. L. 98...	6·6	...	12	48	5·91	5	53	50·6	16	0·51
228	R. P. L. 99	5·6	...	12	48	15·83	5	54	7·3	1	0·92
229	12 Canum Venaticorum α...	3·1	...	12	50	7·88	51	0	2·2	2	0·44
230	51 Virginis θ	4·4	...	13	3	25·62	94	51	56·9	10	0·41
231	R. P. L. 101	7·5	...	13	8	38·52	1	40	29·2	7	0·34
232	67 Virginis α (*Spica*) ...	1·2	...	13	18	33·345	100	30	10·6	9	0·42
233	Stone 7365	7·8	...	13	19	37·94	143	29	53·3	2	0·27
234	Lacaille 5546	9·0	2	13	20	17·93	143	30	37·1	2	0·29
235	... ...	9·5	2	13	22	22·35	112	31	4·3	2	0·25
236	x Virginis, Var. 10 ...	6·1	9	13	27	58·66	102	34	2·0	10	0·29
237	79 Virginis ζ	3·5	...	13	28	16·46	89	57	2·5	6	0·41
238	Taylor 6294	6·3	5	13	29	46·99	135	47	0·9	5	0·35
239	... ...	8·1	4	13	33	27·39	137	40	45·6	5	0·32
240	... ...	7·6	5	13	35	13·81	136	21	12·2	5	0·30
241	... ...	9·4	4	13	35	17·08	136	43	11·0	5	0·31
242	Bonn +0°.3090	9·5	1	13	35	30·31	89	28	38·7	1	0·24
243	Bonn +0°.3091	10·2	2	13	36	28·14	89	38	1·3	2	0·40
244	... ...	9·3	1	13	37	9·69	144	41	22·5	1	0·38
245	Taylor 6363	8·1	1	13	37	17·93	147	36	30·4	1	0·38

217.—Comparison star for Danaë in 1874.
219.—Comparison star for Hestia in 1868.
227.—Groombridge 1937.
228.—Groombridge 1940.
231.—Groombridge 2006.
235.—Observed for map of R Hydræ, Var. 1.
238—239—240—241.—Comparison stars for Comet in 1873.
242—243.—Comparison stars for Isis in 1871.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	13 Virginis	+ 3·0723	+ 0·0026	− 0·000	+ 20·026	− 0·032	+ 0·03	1643
212	... ...	+ 3·0985	+ 0·0128	...	+ 20·020	− 0·035	...	...
213	15 Virginis η... ..	+ 3·0722	+ 0·0027	− 0·006	+ 20·019	− 0·035	+ 0·02	1647
214	... ...	+ 3·2236	+ 0·0464	...	+ 19·984	− 0·047	...	...
215	α Crucis—1st ...	+ 3·2905	+ 0·0680	− 0·006	+ 19·982	− 0·050	+ 0·04	Stone
216	... ...	+ 3·1533	+ 0·0244	...	+ 19·974	− 0·049	...	...
217	O. A. S. 12164 ...	+ 3·1196	+ 0·0152	...	+ 19·974	− 0·050	...	...
218	... ...	+ 3·2576	+ 0·0518	...	+ 19·964	− 0·053	...	...
219	... ...	+ 3·0764	+ 0·0042	...	+ 19·940	− 0·057	...	...
220	... ...	+ 3·3451	+ 0·0685	...	+ 19·934	− 0·063	...	...
221	... ...	+ 2·8660	− 0·0293	...	+ 19·908	− 0·059	...	...
222	9 Corvi β	+ 3·1397	+ 0·0164	− 0·003	+ 19·908	− 0·064	+ 0·05	1685
223	... ...	+ 3·2760	+ 0·0447	...	+ 19·901	− 0·067	...	...
224	... ...	+ 3·3314	+ 0·0496	...	+ 19·842	− 0·079	...	...
225	29 Virginis γ^2 (*S.*) ...	+ 3·0749	+ 0·0043	− 0·039	+ 19·818	− 0·078	− 0·02	1698-9
226	29 Virginis γ^1 (*N.*)...	+ 3·0749	+ 0·0043	− 0·039	+ 19·818	− 0·078	− 0·02	1698-9
227	R. P. L. 98	+ 0·3757	+ 0·2194	− 0·017	+ 19·615	− 0·019	− 0·02	1730
228	R. P. L. 99	+ 0·3687	+ 0·2205	− 0·020	+ 19·611	− 0·019	− 0·02	1731
229	12 Can. Venat. α ...	+ 2·8373	− 0·0152	− 0·022	+ 19·577	− 0·098	− 0·07	1725
230	51 Virginis θ ...	+ 3·1033	+ 0·0078	− 0·004	+ 19·291	− 0·132	+ 0·04	1747
231	R. P. L. 101	− 10·4203	+ 7·6084	...	+ 19·162	+ 0·440	...	...
232	67 Virginis α ...	+ 3·1555	+ 0·0116	− 0·004	+ 18·888	− 0·163	+ 0·02	1774
233	Stone 7365	+ 3·6875	+ 0·0587	...	+ 18·856	− 0·190	...	...
234	Lacaille 5546 ...	+ 3·6927	+ 0·0589	...	+ 18·836	− 0·192	...	...
235	... ...	+ 3·2672	+ 0·0191	...	+ 18·773	− 0·175	...	...
236	x Virginis, Var. 10 ...	+ 3·1838	+ 0·0130	...	+ 18·595	− 0·182	...	...
237	79 Virginis ζ ...	+ 3·0717	+ 0·0064	− 0·021	+ 18·586	− 0·176	− 0·06	1789
238	Taylor 6294	+ 3·5968	+ 0·0443	...	+ 18·535	− 0·208	...	...
239	... ...	+ 3·6544	+ 0·0478	...	+ 18·410	− 0·219	...	...
240	... ...	+ 3·6379	+ 0·0457	...	+ 18·348	− 0·212	...	...
241	... ...	+ 3·6455	+ 0·0463	...	+ 18·346	− 0·223	...	...
242	Bonn +0°. 3090 ...	+ 3·0672	+ 0·0065	...	+ 18·338	− 0·189	...	...
243	Bonn + 0°. 3091 ...	+ 3·0687	+ 0·0065	...	+ 18·304	− 0·191	...	...
244	... .	+ 3·8488	+ 0·0642	...	+ 18·279	− 0·237	...	...
245	Taylor 6363	+ 3·9403	+ 0·0733	...	+ 18·274	− 0·243	...	...

215—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
246	Lacaille 5661	7·8	2	13	37	40·89	138	9	32·9	2	0·44
247	... ...	9·7	2	13	38	4·94	123	51	7·4	2	0·33
248	... ...	8·9	1	13	39	15·83	152	49	4·0	1	0·26
249	... ...	8·7	1	13	39	44·84	138	53	10·9	1	0·30
250	... ...	8·1	3	13	40	0·70	138	32	0·0	3	0·30
251	... ... 2nd Star...	10·0	2	13	46	6·72	128	26	11·6	2	0·27
252	X Virginis, Var. 5.. ...	9·0	1	13	47	44·83	78	18	54·6	1	0·27
253	Taylor 6473	7·7	...	13	48	21·85	97	26	16·2	1	0·24
254	8 Bootis η	2·9	...	13	48	41·13	70	58	10·7	14	0·41
255	... ...	10·2	1	13	52	1·33	108	33	34·7	1	0·26
256	... ...	9·6	3	13	53	1·59	128	4	22·5	3	0·27
257	β Centauri	1·0	...	13	54	56·87	149	45	50·1	3	0·42
258	W. B. E. XIII. 1023 ...	8·3	7	13	59	6·42	102	5	55·4	7	0·28
259	W. B. E. XIII. 1070 ...	8·4	7	14	1	38·68	101	57	55.4	7	0·33
260	R. P. L. 108.	7·8	...	14	2	38·54	3	38	20·0	6	0·57
261	... ...	9·4	4	14	3	3·95	101	48	18·0	4	0·40
262	Bootis, Var. 4	9·2	3	14	4	51·11	79	35	22·1	3	0·28
263	... .	9·2	7	14	6	45·98	102	20	59·2	8	0·33
264	16 Bootis α (*Arcturus*) ...	0·0	...	14	9	54·92	70	9	38·9	5	0·43
265	... ...	8·3	4	14	10	28·45	128	17	59·3	4	0·30
266	... ...	9·4	2	14	13	9·33	136	52	40·9	2	0·27
267	W. B. E. XIV. 240 ...	9·1	5	14	15	2·27	102	36	17·9	5	0·27
268	... ...	9·0	1	14	15	54·90	122	14	21·7	1	0·28
269	W. B. E. XIV. 280.. ...	8·1	4	14	16	54·10	102	24	22·5	5	0·38
270	Lacaille 5926	9·1	1	14	17	15·01	119	2	45·0	1	0·29
271	Taylor 6721	7·2	1	14	17	54·46	101	5	46·2	1	0·31
272	... ...	10·2	2	14	18	0·79	123	16	10·3	2	0·42
273	W. B. E. XIV. 315 ...	6·8	8	14	18	28·32	102	46	54·8	8	0·40
274	W. B. E. XIV. 360 ...	7·9	8	14	20	55·53	102	47	28·9	9	0·33
275	W. B. E. XIV. 392 ...	9·1	5	14	22	44·44	103	15	36·2	6	0·37
276	W. B. E. XIV. 410 ...	9·1	3	14	23	55·34	103	2	36·9	3	0·28
277	25 Bootis ρ	3·6	...	14	26	23·97	59	4	29·4	2	0·45
278	W. B. E. XIV. 458 ...	9·5	5	14	26	42·00	103	31	11·2	5	0·27
279	O. A. N. 14652 ...	8·6	1	14	27	9·79	20	9	42·2	1	0·43
280	... ...	9·6	3	14	27	19·77	123	22	42·4	3	0·41

246—249—250.—Comparison stars for Comet in 1873.

255.—Comparison star for Thisbe in 1870.

258—259—263—267—269—273—274—275—276—278.—Comparison stars for Mars in 1873.

265.—Comparison star for Ægle in 1874.

279.—Comparison star for Comet 2, 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
246	Lacaille 5661 ...	+ 3·6894	+ 0·0491	...	+ 18·256	− 0·231	...	...
247	... ...	+ 3·4444	+ 0·0292	...	+ 18·246	− 0·215	...	...
248	... ...	+ 3·1649	+ 0·0964	...	+ 18·203	− 0·261	...	...
249	... ...	+ 3·7180	+ 0·0507	...	+ 18·181	− 0·237	...	...
250	... ...	+ 3·7116	+ 0·0500	...	+ 18·175	− 0·237	...	...
251	... 2nd Star...	+ 3·5461	+ 0·0346	...	+ 17·943	− 0·238	...	...
252	X Virginis, Var. 5 ...	+ 2·9470	+ 0·0022	...	+ 17·879	− 0·202	...	...
253	Taylor 6473	+ 3·1528	+ 0·0109	...	+ 17·854	− 0·217	...	...
254	8 Bootis η	+ 2·8616	− 0·0006	− 0·005	+ 17·841	− 0·199	+ 0·34	1821
255	... ...	+ 3·2830	+ 0·0173	...	+ 17·706	− 0·232	...	...
256	... ...	+ 3·5681	+ 0·0343	...	+ 17·664	− 0·253	...	...
257	β Centauri	+ 4·1751	+ 0·0841	− 0·010	+ 17·584	− 0·301	+ 0·05	Stone
258	W. B. E. XIII. 1023..	+ 3·2145	+ 0·0135	...	+ 17·407	− 0·240	...	...
259	W. B. E. XIII. 1070..	+ 3·2156	+ 0·0134	...	+ 17·295	− 0·245	...	...
260	R. P. L. 108 ...	− 7·6485	+ 2·4276	...	+ 17·251	+ 0·562	...	...
261	... ...	+ 3·2151	+ 0·0134	...	+ 17·232	− 0·247	...	...
262	Bootis, Var. 4 ...	+ 2·9450	+ 0·0035	...	+ 17·151	− 0·229	...	...
263	... ...	+ 3·2260	+ 0·0137	...	+ 17·065	− 0·254	...	...
264	16 Bootis α (*Arcturus*)	+ 2·8131	+ 0·0004	− 0·080	+ 16·917	− 0·227	+ 1·98	1847
265	... ...	+ 3·6413	+ 0·0349	...	+ 16·892	− 0·293	...	...
266	... ...	+ 3·8557	+ 0·0477	...	+ 16·764	− 0·314	...	...
267	W. B. E. XIV. 240 ...	+ 3·2383	+ 0·0139	...	+ 16·673	− 0·270	...	...
268	... ...	+ 3·5436	+ 0·0281	...	+ 16·630	− 0·294	...	...
269	W. B. E. XIV. 280 ...	+ 3·2376	+ 0·0138	...	+ 16·582	− 0·273	...	...
270	Lacaille 5926 ...	+ 3·4908	+ 0·0252	...	+ 16·565	− 0·293	...	...
271	Taylor 6721	+ 3·2207	+ 0·0132	...	+ 16·532	− 0·272	...	...
272	... ...	+ 3·5691	+ 0·0292	...	+ 16·527	− 0·301	...	...
273	W. B. E. XIV. 315 ...	+ 3·2445	+ 0·0141	...	+ 16·504	− 0·276	...	...
274	W. B. E. XIV. 360 ...	+ 3·2473	+ 0·0140	...	+ 16·381	− 0·280	...	...
275	W. B. E. XIV. 392 ...	+ 3·2562	− 0·0144	...	+ 16·289	− 0·284	...	...
276	W. B. E. XIV. 410 ...	+ 3·2542	+ 0·0143	...	+ 16,228	− 0·286	...	...
277	25 Bootis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·100	− 0·233	− 0·13	1869
278	W. B. E. XIV. 458 ...	+ 3·2642	+ 0·0145	...	+ 16·084	− 0·291	...	...
279	O. A. N. 14652 ...	+ 0·8913	+ 0·0366	...	+ 16·060	− 0·084	...	...
280	... ...	+ 3·6002	+ 0·0291	...	+ 16·051	− 0·321	...	...

257.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
281	W. B. E. XIV. 512 ...	9·0	2	14	29	26·75	103	28	35·4	2	0·29
282	R Bootis, Var. 1	8·0	1	14	31	38·31	62	42	56·2	2	0·27
283	... ...	10·0	1	14	35	17·79	61	58	39·7	1	0·24
284	... ...	9·4	3	14	37	16·11	150	19	57·3	3	0·27
285	36 Bootis e^2 (*Mirac*) ...	2·6	...	14	39	29·07	62	23	37·1	13	0·43
286	... ...	9·0	1	14	43	2·61	129	9	22·2	1	0·24
287	8 Libræ α^1	5·3	...	14	43	43·01	105	28	18·1	2	0·26
288	9 Libræ α^2...	3·0	...	14	43	54·57	105	31	1·9	3	0·47
289	... ...	8·1	2	14	46	1·81	101	51	52·4	2	0·27
290	18 Libræ ζ^1	5·9	...	14	47	32·57	101	22	56·4	2	0·30
291	... ...	9·8	2	14	48	16·70	150	43	26·9	2	0·39
292	... ...	9·2	2	14	51	1·72	130	34	39·9	2	0·39
293	... ...	9·1	3	14	51	42·71	39	22	4·5	3	0·29
294	... ...	9·0	2	14	52	12·28	123	15	11·6	2	0·26
295	Taylor 6991	5·5	1	14	52	12·28	39	51	20·2	2	0·40
296	O. A. N. 14999	9·0	3	14	53	52·61	41	27	51·1	3	0·37
297	O. A. N. 15004	7·9	1	14	54	12·44	39	23	27·8	1	0·29
298	19 Libræ δ, Var. 4 ...	5·6	4	14	54	14·59	98	1	3·9	5	0·44
299	... ...	8·5	...	14	58	21·26	131	33	6·3	1	0·27
300	43 Bootis ψ	4·5	...	14	59	2·85	62	33	35·2	3	0·51
301	47 Bootis k	5·6	...	15	1	15·42	41	21	40·7	4	0·33
302	... ...	8·9	3	15	1	30·32	97	24	42·4	3	0·31
303	... ... 2nd star...	8·8	2	15	4	10·88	122	21	3·1	2	0·34
304	O. A. N. 15138	9·0	1	15	4	27·85	43	2	22·8	2	0·45
305	R. P. L. 111	7·0	...	15	4	33·67	5	33	45·5	4	0·27
306	W. B. E. XV. 86	9·2	1	15	7	3·72	98	4	9·5	1	0·27
307	... ...	8·6	3	15	7	18·50	98	17	37·4	5	0·43
308	... ...	8·9	2	15	7	22·04	130	28	46·1	2	0·50
309	27 Libræ β	2·7	...	15	10	13·68	98	54	59·3	9	0·44
310	Redhill 2293	8·0	...	15	13	24·12	4	23	19·1	4	0·06
311	... ...	9·0	1	15	14	49·56	123	9	44·2	1	0·27
312	Lacaille 6354	9·0	3	15	15	38·41	124	17	23·3	3	0·32
313	S Coronæ Borealis, Var. 2.	7·0	6	15	16	15·97	58	10	42·9	7	0·43
314	W. B. E. XV. 290 ...	8·3	3	15	17	33·90	102	27	25·1	4	0·44
315	... ...	9·1	3	15	17	43·42	130	5	48·4	3	0·53

281.—Comparison star for Mars in 1871.
283.—Observed for map of R Bootis, Var. 1.
293—295—296—301—304.—Comparison stars for Comet 2, 1861.
302—306—307—314.—Comparison stars for Comet 2, 1867.
305.—Groombridge 2213.
316.—Groombridge 2283.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
281	W. B. E. XIV. 512 ...	+ 3·2667	+ 0·0145	...	+ 15·940	− 0·296	...	...
282	R Bootis, Var. 1 ...	+ 2·6486	− 0·0004	...	+ 15·822	− 0·244	...	...
283	... ...	+ 2·6262	− 0·0004	...	+ 15·624	− 0·247	...	...
284	... ...	+ 4·5594	+ 0·0874	...	+ 15·515	− 0·426	...	...
285	36 Bootis ϵ^2	+ 2·6204	− 0·0001	− 0·004	+ 15·393	− 0·252	− 0·00	1890
286	... ...	+ 3·7832	+ 0·0350	...	+ 15·190	− 0·366	...	...
287	8 Libræ α^1	+ 3·3146	+ 0·0154	− 0·010	+ 15·152	− 0·323	+ 0·09	1893
288	9 Libræ α^2	+ 3·3156	+ 0·0154	− 0·009	+ 15·140	− 0·324	+ 0·07	1894
289	... ...	+ 3·2583	+ 0·0135	...	+ 15·018	− 0·321	...	...
290	13 Bootis ζ^1	+ 3·2519	+ 0·0132	− 0·006	+ 14·930	− 0·322	+ 0·01	1901
291	... ...	+ 4·6700	+ 0·0883	...	+ 14·888	− 0·460	...	...
292	... ...	+ 3·8497	+ 0·0363	...	+ 14·724	− 0·386	...	...
293	... ...	+ 1·9624	+ 0·0014	...	+ 14·684	− 0·201	...	...
294	... ...	+ 3·6707	+ 0·0280	...	+ 14·655	− 0·370	...	...
295	Taylor 6091	+ 1·9790	+ 0·0013	...	+ 14·655	− 0·203	...	...
296	O. A. N. 14999 ...	+ 2·0313	+ 0·0008	...	+ 14·555	− 0·209	...	...
297	O. A. N. 15004 ...	+ 1·9505	+ 0·0017	...	+ 14·534	− 0·202	...	...
298	19 Libræ δ, Var. 4 ...	+ 3·2020	+ 0·0116	− 0·006	+ 14·533	− 0·328	+ 0·01	1911
299	... ...	+ 3·9041	+ 0·0371	...	+ 14·282	− 0·405	...	...
300	43 Bootis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·240	− 0·271	+ 0·01	1922
301	47 Bootis k	+ 1·9927	+ 0·0018	− 0·008	+ 14·102	− 0·212	− 0·01	1925
302	... ...	+ 3·1960	+ 0·0112	...	+ 14·088	− 0·337	...	...
303	... 2nd Star...	+ 3·6818	+ 0·0264	...	+ 13·920	− 0·392	...	...
304	O. A. N. 15138 ...	+ 2·0405	+ 0·0015	...	+ 13·902	− 0·220	...	...
305	R. P. L. 111	− 6·8268	+ 1·1695	...	+ 13·895	+ 0·712	...	...
306	W. B. E. XV. 86 ...	+ 3·2103	+ 0·0114	...	+ 13·738	− 0·347	...	...
307	... ...	+ 3·2143	+ 0·0115	...	+ 13·721	− 0·348	...	...
308	... ...	+ 3·9046	+ 0·0349	...	+ 13·717	− 0·420	...	...
309	27 Libræ β	+ 3·2270	+ 0·0117	− 0·008	+ 13·534	− 0·353	+ 0·02	1934
310	Redhill 2293... ...	− 9·9451	+ 1·9461	...	+ 13·328	+ 1·076	...	...
311	... ...	+ 3·7286	+ 0·0264	...	+ 13·234	− 0·414	...	...
312	Lacaille 6354 ...	+ 3·7594	+ 0·0274	...	+ 13·180	− 0·418	...	...
313	S Cor. Bor., Var. 2 ...	+ 2·4455	+ 0·0014	...	+ 13·139	− 0·275	...	...
314	W. B. E. XV. 290 ...	+ 3·2965	+ 0·0134	...	+ 13·054	− 0·371	...	...
315	... ...	+ 3·9274	+ 0·0334	...	+ 13·042	− 0·440	...	...

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
316	R. P. L. 114.	6·9	...	15	18	37·54	2	17	12·8	1	0·08
317	W. B. E. XV. 319 ...	9·1	2	15	18	44·32	102	25	25·8	2	0·30
318	... ...	9·1	2	15	22	19·50	129	28	7·0	2	0·36
319	... ...	8·6	1	15	23	2·41	125	12	16·4	1	0·27
320	... ...	9·6	3	15	25	12·83	130	11	1·4	3	0·36
321	Lacaille 6421	8·0	1	15	26	16·54	122	44	37·8	1	0·29
322	Lalande 28320	8·2	3	15	27	2·71	103	48	11·0	4	0·38
323	5 Coronæ Borealis *a* ...	2·4	...	15	29	21·19	62	51	34·9	7	0·51
324	... ...	10·0	3	15	29	49·51	119	42	26·7	3	0·52
325	... ...	9·5	1	15	30	49·34	129	35	29·5	1	0·27
326	W. B. E. XV. 557 ...	7·5	2	15	30	58·40	104	6	48·2	3	0·41
327	W. B. E. XV. 564 ...	7·1	3	15	31	27·59	104	5	56·0	3	0·36
328	43 Libræ *κ*	5·0	...	15	34	41·25	109	16	6·4	3	0·40
329	... ...	8·6	3	15	35	30·31	129	3	23·7	3	0·47
330	24 Serpentis *a*	2·7	...	15	38	3·76	83	10	33·5	5	0·47
331	O. A. S. 14840	8·5	2	15	38	20·01	114	19	5·0	3	0·40
332	... ...	8·1	5	15	38	20·32	125	29	2·3	5	0·51
333	O. A. S. 14841	9·0	3	15	38	24·30	114	9	40·7	3	0·51
334	O. A. S. 14874	9·2	1	15	40	1·65	104	50	32·4	1	0·38
335	Lacaille 6524	5·9	1	15	41	20·14	144	40	8·4	1	0·48
336	... ...	9·7	2	15	42	43·30	104	26	15·6	2	0·45
337	R Coronæ Borealis, Var.	6·4	5	15	43	22·90	61	27	20·4	5	0·45
338	... ...	9·5	1	15	44	31·56	104	23	23·8	1	0·27
339	36 Serpentis *b*	5·2	...	15	44	42·35	92	42	27·0	1	0·39
340	W. B. E XV. 861... ...	9·5	2	15	46	5·07	101	27	17·5	2	0·54
341	Radcliffe 3462	8·3	1	15	46	41·05	47	3	20·7	1	0·50
342	R. P. L. 115	7·0	...	15	46	55·66	4	45	46·9	6	0·64
343	O. A. S. 14996	9·5	2	15	47	3·82	105	17	19·0	2	0·47
344	Lalande 28970	8·4	1	15	48	24·91	70	50	55·6	1	0·38
345	O. A. S. 15053	8·3	1	15	49	36·13	105	27	43·3	1	0·43
346	W. B. E. XV. 923... ...	9·2	1	15	49	51·75	104	57	49·2	1	0·50
347	... ...	9·0	2	15	49	58·16	104	0	46·7	2	0·49
348	Lalande 29054	8·7	...	15	51	3·98	104	5	26·7	1	0·39
349	4 Herculis...	5·7	...	15	51	16·16	47	3	59·0	2	0·45
350	7 Scorpii *δ*	2·5	...	15	52	53·20	112	15	40·3	1	0·39

316.—Groombridge 2283.
317—322—326—327.—Comparison stars for Comet 2, 1867.
331.—Comparison star for Iphigenia in 1873.
332.—Comparison star for Thyra in 1874.
334—336—338—343—345—346.—Comparison stars for Asia in 1861.
335.—Comparison star for Niobe in 1874.
339.—Comparison star for Donati's comet in 1858.
340—347—348.—Comparison stars for Sappho in 1871.
342.—Carrington 2380.
344.—Comparison star for Comet 2, 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
316	R. P. L. 114	− 22·4431	+ 7·5794	...	+ 12·983	+ 2·490	...	...
317	W. B. E. XV. 319 ...	+ 3·2968	+ 0·0131	...	+ 12·976	− 0·373	...	...
318	... ...	+ 3·9227	+ 0·0322	...	+ 12·734	− 0·445	...	...
319	... ...	+ 3·8029	+ 0·0276	...	+ 12·685	− 0·434	...	...
320	... ...	+ 3·9535	+ 0·0327	...	+ 12·538	− 0·454	...	...
321	Lacaille 6421 ...	+ 3·7458	+ 0·0252	...	+ 12·466	− 0·433	...	...
322	Lalande 28320 ...	+ 3·3302	+ 0·0134	...	+ 12·413	− 0·387	...	...
323	5 Coronæ Borealis *a* ..	+ 2·5297	+ 0·0023	+ 0·009	+ 12·253	− 0·297	+ 0·09	1973
324	... ...	+ 3·6771	+ 0·0224	...	+ 12·219	− 0·429	...	...
325	... ...	+ 3·9518	+ 0·0314	...	+ 12·151	− 0·463	...	...
326	W. B. E. XV. 557 ...	+ 3·3398	+ 0·0134	...	+ 12·141	− 0·393	...	...
327	W. B. E. XV. 564 ...	+ 3·3399	+ 0·0134	...	+ 12·107	− 0·394	...	...
328	43 Libræ *κ*	+ 3·4488	+ 0·0157	− 0·005	+ 11·880	− 0·409	+ 0·10	1981
329	... ...	+ 3·9485	+ 0·0302	...	+ 11·822	− 0·471	...	...
330	24 Serpentis *a* ...	+ 2·9419	+ 0·0062	+ 0·008	+ 11·642	− 0·354	− 0·06	1990
331	O. A. S. 14840 ...	+ 3·5646	+ 0·0182	...	+ 11·622	− 0·429	...	...
332	... ...	+ 3·8489	+ 0·0264	...	+ 11·622	− 0·463	...	...
333	O. A. S. 14841 ...	+ 3·5612	+ 0·0181	...	+ 11·617	− 0·428	...	...
334	O. A. S. 14874 ...	+ 3·3626	+ 0·0133	...	+ 11·501	− 0·405	...	...
335	Lacaille 6524 ...	+ 4·6233	+ 0·0555	...	+ 11·408	− 0·560	...	...
336	... ...	+ 3·3565	+ 0·0130	...	+ 11·306	− 0·409	...	...
337	R Cor. Bor., Var. 1 ...	+ 2·4705	+ 0·0026	...	+ 11·259	− 0·303	...	...
338	... ...	+ 3·3571	+ 0·0129	...	+ 11·176	− 0·411	...	...
339	36 Serpentis *b* ...	+ 3·1248	+ 0·0087	− 0·008	+ 11·162	− 0·395	+ 0·02	2004
340	W. B. E. XV. 861 ...	+ 3·2982	+ 0·0116	...	+ 11·063	− 0·406	...	...
341	Radcliffe 3462 ...	+ 2·0326	+ 0·0033	...	+ 11·019	− 0·252	...	...
342	R. P. L. 115	− 10·3234	+ 1·5323	...	+ 11·001	+ 1·254	...	...
343	O. A. S. 14996 ...	+ 3·3779	+ 0·0131	...	+ 10·991	− 0·416	...	...
344	Lalande 28970 ...	+ 2·6825	+ 0·0039	...	+ 10·892	− 0·333	...	...
345	O. A. S. 15053 ...	+ 3·3838	+ 0·0131	...	+ 10·805	− 0·420	...	...
346	W. B. E. XV. 923 ...	+ 3·3735	+ 0·0128	...	+ 10·786	− 0·419	...	...
347	... ...	+ 3·3536	+ 0·0125	...	+ 10·778	− 0·417	...	...
348	Lalande 29054 ...	+ 3·3561	+ 0·0125	...	+ 10·697	− 0·418	...	...
349	4 Herculis	+ 2·0195	+ 0·0035	− 0·001	+ 10·682	− 0·254	+ 0·01	2028
350	7 Scorpii *δ*	+ 3·5376	+ 0·0159	− 0·002	+ 10·562	− 0·443	+ 0·03	2024

Mean Positions of Stars for 1874, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
					h.	*m.*	*s.*	°	′	″		
	351	49 Libræ	5·6	1	15	53	15·71	106	9	36·0	1	0·50
	352	Taylor 7439	8·8	1	15	55	6·12	126	46	50·6	1	0·38
	353	O. A. S. 15146	9·0	2	15	55	21·45	107	30	32·2	2	0·53
	354	W. B. E. XV. 1047 ...	8·1	1	15	56	27·34	91	17	49·1	1	0·50
	355	51 Scorpii ξ	4·1	...	15	57	26·40	101	1	26·7	1	0·39
	356	8 Scorpii β^1	3·0	...	15	58	6·73	109	27	29·8	10	0·47
	357	9 Scorpii ω^1	4·1	...	15	59	26·36	110	19	34·2	3	0·44
	358	O. A. S. 15237	8·5	1	15	59	53·29	106	36	3·5	2	0·40
	359	Lalande 29306	8·7	1	16	0	0·52	107	35	40·8	1	0·43
	360	11 Scorpii...	5·6	...	16	0	36·78	102	24	15·9	5	0·55
38·02	361	R. P. L. 116	7·0	...	16	2	38·32·02	4	20	26·8	3	0·04
	362	Lalande 29414	8·0	3	16	2	52·47	102	33	7·4	3	0·58
	363	W. B. E. XVI. 83... ...	8·3	1	16	6	36·53	102	42	39·0	2	0·39
	364	O. A. S. 15412	9·1	2	16	6	52·58	106	4	41·6	2	0·51
4·46	365	O. A. S. 15416	7·9	3	16	7	4·43	110	47	5·9	3	0·48
	366	O. A. S. 15418	9·0	2	16	7	5·06	106	13	6·5	2	0·56
	367	1 Ophiuchi δ	2·8	...	16	7	44·60	93	22	5·2	9	0·53
	368	... ...	10·1	1	16	10	19·02	112	35	1·7	1	0·50
	369	... ...	10·5	1	16	12	59·08	107	38	15·4	2	0·39
	370	... ...	8·0	1	16	15	1·23	146	12	35·1	1	0·38
	371	... ...	9·5	3	16	16	26·50	128	9	6·9	3	0·52
	372	... ...	9·2	1	16	16	37·05	152	18	33·2	1	0·62
	373	... ...	10·0	1	16	17	10·50	107	27	3·3	1	0·50
	374	O. A. S. 15606	9·1	2	16	17	26·30	107	15	56·8	2	0·50
	375	O. A. S. 15613	7·8	2	16	17	51·04	113	10	2·7	2	0·43
1·90	376	5 Ophiuchi ρ	7·1	4	16	18	1·82·90	113	9	17·7	4	0·46
	377	Taylor 7621	9·0	3	16	18	2·09	113	6	45·0	3	0·56
	378	... ...	9·0	3	16	18	40·13	129	32	2·5	3	0·61
	379	7 Ophiuchi χ	5·0	...	16	19	43·44	108	10	6·0	3	0·40
	380	21 Scorpii α (*Antares*) ...	1·1	...	16	21	41·04	116	8	59·8	6	0·55
	381	Lalande 30042	8·8	1	16	23	4·23	48	28	11·5	1	0·38
	382	8 Ophiuchi φ	4·4	...	16	23	55·63	106	20	7·4	2	0·46
	383	30 Herculis g	5·1	...	16	24	29·74	47	50	26·3	1	0·61
	384	... ...	9·5	2	16	27	5·43	130	56	9·7	2	0·40
	385	13 Ophiuchi ζ	2·8	...	16	30	13·19	100	18	36·4	2	0·40

351.—Comparison star for Asia in 1861.
353—358—359—369—373.—Comparison stars for Sylvia in 1866.
354—360—365—381.—Comparison stars for Comet 2, 1862.
361.—Carrington 2423.
362—364—366.—Comparison stars for Sappho in 1864.
368.—Observed for map of R. S. T. Scorpii, Vars.
374.—Observed for map of U Scorpii, Var. 4.
375—376—377.—Comparison stars for Angelina in 1866.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
351	49 Libræ	+ 3·4019	+ 0·0131	− 0·047	+ 10·533	− 0·427	+ 0·37	2026
352	Taylor 7439	+ 3·9310	+ 0·0761	...	+ 10·396	− 0·493	...	...
353	O. A. S. 15146 ...	+ 3·4331	+ 0·0135	...	+ 10·377	− 0·432	...	...
354	W. B. E. XV. 1047 ...	+ 3·0983	+ 0·0079	...	+ 10·295	− 0·392	...	...
355	51 Scorpii ξ	+ 3·2964	+ 0·0109	− 0·007	+ 10·220	− 0·417	+ 0·02	2033
356	8 Scorpii β^1	+ 3·4793	+ 0·0142	− 0·003	+ 10·169	− 0·441	+ 0·03	2034
357	9 Scorpii ω^1	+ 3·5005	+ 0·0106	− 0·003	+ 10·069	− 0·446	+ 0·02	2039
358	O. A. S. 15237 ...	+ 3·4173	+ 0·0129	...	+ 10·035	− 0·435	...	...
359	Lalande 29306 ...	+ 3·4394	+ 0·0132	...	+ 10·026	− 0·438	...	...
360	11 Scorpii	+ 3·3272	+ 0·0112	− 0·005	+ 9·981	− 0·425	+ 0·03	2042
361	R. P. L. 116	− 12·2821	+ 1·7488	...	+ 9·827	+ 1·558	...	...
362	Lalande 29414 ...	+ 3·3318	+ 0·0111	...	+ 9·808	− 0·428	...	...
363	W. B. E. XVI. 83 ...	+ 3·3377	+ 0·0110	...	+ 9·523	− 0·431	...	...
364	O. A. S. 15412 ...	+ 3·4116	+ 0·0122	...	+ 9·501	− 0·442	...	...
365	O. A. S. 15416 ...	+ 3·5193	+ 0·0140	...	+ 9·487	− 0·456	...	...
366	O. A. S. 15418 ...	+ 3·4147	+ 0·0123	...	+ 9·485	− 0·442	...	...
367	1 Ophiuchi δ... ...	+ 3·1416	+ 0·0081	− 0·005	+ 9·435	− 0·408	+ 0·14	2065
368	... ...	+ 3·5659	+ 0·0147	...	+ 9·235	− 0·465	...	...
369	... ...	+ 3·4518	+ 0·0123	...	+ 9·028	− 0·453	...	...
370	... ...	+ 4·8642	+ 0·0492	...	+ 8·868	− 0·638	...	...
371	... ...	+ 4·0172	+ 0·0233	...	+ 8·757	− 0·530	...	...
372	... ...	+ 5·3649	+ 0·0682	...	+ 8·742	− 0·706	...	...
373	... ...	+ 3·4509	+ 0·0119	...	+ 8·699	− 0·457	...	...
374	O. A. S. 15606 ...	+ 3·4468	+ 0·0118	...	+ 8·674	− 0·457	...	...
375	O. A. S. 15613 ...	+ 3·5885	+ 0·0141	...	+ 8·646	− 0·476	...	...
376	5 Ophiuchi ρ... ...	+ 3·5884	+ 0·0141	− 0·002	+ 8·631	− 0·476	+ 0·01	Stone
377	Taylor 7621	+ 3·5873	+ 0·0141	...	+ 8·631	− 0·476	...	...
378	... ...	+ 4·0696	+ 0·0240	...	+ 8·581	− 0·540	...	...
379	7 Ophiuchi χ ...	+ 3·4697	+ 0·0119	− 0·004	+ 8·497	− 0·462	+ 0·02	2088
380	21 Scorpii α (*Antares*)	+ 3·6691	+ 0·0150	− 0·002	+ 8·342	− 0·491	+ 0·03	2091
381	Lalande 30042 ...	+ 1·9924	+ 0·0040	...	+ 8·231	− 0·269	...	...
382	8 Ophiuchi φ... ...	+ 3·4301	+ 0·0110	− 0·005	+ 8·162	− 0·461	+ 0·03	2094
383	30 Herculis *g* ...	+ 1·9653	+ 0·0042	0·000	+ 8·117	− 0·265	− 0·04	2102
384	... ...	+ 4·1379	+ 0·0235	...	+ 7·909	− 0·557	...	...
385	13 Ophiuchi ζ ...	+ 3·2969	+ 0·0087	− 0·001	+ 7·656	− 0·447	− 0·04	2109

376.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
386	Brisbane 5784	9·8	1	16	31	47·58	150	40	41·3	1	0·38
387	Taylor 7724	7·3	2	16	34	29·60	109	40	50·3	2	0·39
388	... ...	8·2	1	16	35	19·62	134	8	14·6	1	0·41
389	α Trianguli Australis ...	2·0	...	16	35	20·62	158	47	36·4	3	0·62
390	40 Herculis ζ	3·1	...	16	36	32·17	58	10	3·7	3	0·58
391	... ...	9·0	1	16	37	25·45	130	59	8·4	1	0·50
392	O. A. S. 15952	9·3	1	16	39	58·05	111	56	41·2	2	0·39
393	Lacaille 6984	8·0	3	16	40	21·29	120	58	32·7	3	0·61
394	... ...	8·4	1	16	45	6·15	131	2	32·6	1	0·38
395	... ...	10·1	2	16	45	20·98	75	17	45·6	2	0·55
396	Taylor 7815	8·4	2	16	46	11·08	130	18	54·0	2	0·48
397	49 Herculis	7·5	2	16	46	20·66	74	48	44·2	2	0·65
398	... ...	9·0	1	16	46	56·30	136	38	34·4	1	0·41
399	... ...	8·6	1	16	47	32·69	130	17	27·1	1	0·62
12·49 400	Stone 9208	8·1	2	16	48	12·49	121	6	6·6	2	0·52
401	... ...	8·2	1	16	49	33·48	125	32	19·0	2	0·39
402	27 Ophiuchi κ	3·4	...	16	51	42·23	80	25	37·5	8	0·57
403	... ...	8·6	3	16	52	18·59	122	54	41·3	3	0·41
404	O. A. S. 16232	10·0	1	16	54	32·86	110	15	39·0	1	0·55
405	22 Ursæ Minoris ε ...	4·5	...	16	58	57·12	7	45	31·9	3	0·73
406	... ...	8·2	1	17	4	43·35	59	8	1·1	2	0·39
407	Lacaille 7168	8·0	1	17	5	16·83	128	8	28·6	1	0·41
24·06 408	O. A. S. 16432	8·1	2	17	6	24·046	105	24	28·4	2	0·48
409	... ...	9·0	2	17	6	48·76	130	54	48·2	2	0·65
410	64 Herculis α, Var. 1 ...	Var.	...	17	8	54·18	75	27	51·2	8	0·60
411	... ...	8·1	1	17	9	40·79	124	4	59·3	1	0·50
412	... ...	10·2	1	17	12	40·25	130	28	19·4	1	0·41
413	42 Ophiuchi θ	3·4	...	17	14	16·37	114	52	16·7	4	0·57
414	... ...	8·9	4	17	21	55·34	130	46	12·4	4	0·58
415	Brisbane 6091	8·5	1	17	22	11·66	148	27	34·4	1	0·41
416	Lacaille 7315	7·6	4	17	22	50·61	130	56	22·1	4	0·64
417	23 Draconis β	3·0	...	17	27	35·14	37	36	17·1	2	0·62
418	Taylor 8129	8·2	1	17	28	11·36	77	23	50·6	1	0·41
419	55 Ophiuchi α	2·2	...	17	29	5·08	77	20	47·4	2	0·61
420	... ...	8·0	1	17	29	5·56	125	15	6·0	1	0·50

398.—Comparison star for Ianthe in 1873.
400.—Comparison star for Alexandra in 1871.
404.—Observed for map of T Serpentis, Var. 4.
414.—Apparently wrong as no star was afterwards found in this place.
420.—Comparison star for Donati's comet of 1858.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
386	Brisbane 5784 ...	+ 5·2785	+ 0·0545	...	+ 7·530	− 0·715	...	...
387	Taylor 7724	+ 3·5175	+ 0·0112	...	+ 7·310	− 0·481	...	...
388	... ...	+ 4·2821	+ 0·0247	...	+ 7·242	− 0·584	...	...
389	α Trianguli Australis.	+ 6·2853	+ 0·0907	0·000	+ 7·241	− 0·858	+ 0·06	Stone
390	40 Herculis ζ ...	+ 2·2967	+ 0·0033	− 0·036	+ 7·143	− 0·316	− 0·41	2127
391	... ...	+ 4·1593	+ 0·0215	...	+ 7·071	− 0·570	...	...
392	O. A. S. 15952 ...	+ 3·5784	+ 0·0114	...	+ 6·862	− 0·493	...	...
393	Lacaille 6984 ...	+ 3·8268	+ 0·0149	...	+ 6·830	− 0·528	...	...
394	... ...	+ 4·1746	+ 0·0198	...	+ 6·438	− 0·579	...	...
395	... ...	+ 2·7399	+ 0·0039	...	+ 6·417	− 0·381	...	...
396	Taylor 7815	+ 4·1484	+ 0·0191	...	+ 6·348	− 0·576	...	...
397	49 Herculis	+ 2·7279	+ 0·0040	+ 0·000	+ 6·335	− 0·381	+ 0·00	2144
398	... ...	+ 4·4168	+ 0·0237	...	+ 6·286	− 0·615	...	...
399	... ...	+ 4·1495	+ 0·0186	...	+ 6·235	− 0·578	...	...
400	Stone 9208	+ 3·8395	+ 0·0137	...	+ 6·179	− 0·536	...	...
401	... ...	+ 3·9825	+ 0·0156	...	+ 6·068	− 0·556	...	...
402	27 Ophiuchi κ ...	+ 2·8567	+ 0·0044	− 0·021	+ 5·888	− 0·402	− 0·02	2156
403	... ...	+ 3·9002	+ 0·0139	...	+ 5·837	− 0·547	...	...
404	O. A. S. 16232 ...	+ 3·5457	+ 0·0093	...	+ 5·650	− 0·498	...	...
405	22 Ursæ Minoris ε ...	− 6·3941	+ 0·3072	+ 0·009	+ 5·279	+ 0·898	+ 0·00	2201
406	... ...	+ 2·2962	+ 0·0031	...	+ 4·791	− 0·327	...	...
407	Lacaille 7168 ...	+ 4·0923	+ 0·0139	...	+ 4·743	− 0·581	...	...
408	O. A. S. 16432 ...	+ 3·4306	+ 0·0070	...	+ 4·647	− 0·489	...	...
409	... ...	+ 4·1998	+ 0·0146	...	+ 4·613	− 0·598	...	...
410	64 Herculis α, Var. 1..	+ 2·7342	+ 0·0035	− 0·002	+ 4·434	− 0·391	− 0·03	2183
411	... ...	+ 3·9551	+ 0·0113	...	+ 4·367	− 0·565	...	...
412	... ...	+ 4·1888	+ 0·0132	...	+ 4·112	− 0·599	...	...
413	42 Ophiuchi θ ...	+ 3·6796	+ 0·0080	− 0·002	+ 3·975	− 0·528	+ 0·04	2189
414	... ...	+ 4·2092	+ 0·0111	...	+ 3·316	− 0·606	...	...
415	Brisbane 6091 ...	+ 5·2209	+ 0·0227	...	+ 3·292	− 0·753	...	...
416	Lacaille 7315 ...	+ 4·2168	+ 0·0109	...	+ 3·237	− 0·608	...	...
417	23 Draconis β ...	+ 1·3537	+ 0·0052	− 0·002	+ 2·827	− 0·197	− 0·00	2221
418	Taylor 8129	+ 2·7761	+ 0·0031	...	+ 2·775	− 0·402	...	...
419	55 Ophiuchi α ...	+ 2·7748	+ 0·0030	+ 0·007	+ 2·697	− 0·402	+ 0·22	2218
420	... ...	+ 4·0085	+ 0·0079	...	+ 2·697	− 0·580	...	...

389.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
421	... ...	9·2	2	17	30	5·24	130	56	49·1	2	0·55
422	Taylor 8141	6·4	1	17	31	10·59	111	50	8·4	1	0·50
423	56 Serpentis *o*	4·4	...	17	34	20·25	102	48	18·6	2	0·54
424	... ...	9·2	1	17	34	53·96	128	57	52·7	1	0·61
425	... ...	8·5	1	17	40	36·35	126	28	35·6	1	0·41
426	86 Herculis μ	3·5	...	17	41	31·67	62	12	15·5	4	0·63
427	... ...	8·8	3	17	42	42·93	118	27	37·9	3	0·57
428	Radcliffe 3765	8·4	1	17	43	33·49	17	32	9·4	1	0·50
429	31 Draconis ψ^2	6·0	...	17	44	12·80	17	46	53·5	4	0·62
430	... ...	8·0	1	17	45	42·59	128	35	31·2	1	0·46
431	Lacaille 7499	7·4	1	17	48	57·14	129	4	50·1	1	0·41
432	33 Draconis γ	2·4	...	17	53	40·91	38	29	46·0	1	0·46
433	... ...	10·0	1	18	4	20·01	59	9	50·0	1	0·50
434	13 Sagittarii μ^1	4·1	...	18	6	13·68	111	5	22·4	3	0·64
435	14 Sagittarii	5·9	...	18	6	41·64	111	44	40·1	4	0·59
436	... ...	8·0	2	18	7	23·23	122	22	38·5	2	0·65
437	15 Sagittarii	5·6	...	18	7	41·87	110	45	49·7	3	0·62
438	Lacaille 7644	7·0	...	18	9	39·94	132	19	53·5	1	0·55
439	23 Ursæ Minoris δ ...	4·3	...	18	12	58·66	3	23	31·8	3	0·63
440	24 Ursæ Minoris	3·1	...	18	17	26·31	3	0	50·4	5	0·17
441	O. A. S. 18326	8·4	1	18	23	58·80	109	14	35·3	1	0·48
442	V Sagittarii, Var. 5 ...	7·8	2	18	24	0·74	108	20	50·6	3	0·65
443	Taylor 8527	6·1	1	18	24	3·10	108	29	9·8	1	0·53
444	U Sagittarii, Var. 4 ...	6·4	2	18	24	27·97	109	12	40·0	3	0·60
445	θ Coronæ Australis ...	6·9	2	18	24	30·12	132	24	1·2	2	0·62
446	O. A. S. 18346	7·1	1	18	24	48·07	109	12	37·0	1	0·53
447	Taylor 8551	7·3	2	18	28	10·73	149	13	17·0	2	0·62
448	... ...	9·7	3	18	30	6·77	135	12	2·3	3	0·68
449	... ...	9·0	2	18	30	10·49	135	51	26·0	2	0·53
450	3 Lyræ α (*Vega*)	0·2	...	18	32	40·30	51	19	57·8	9	0·63
451	... ...	9·0	1	18	35	23·41	136	44	27·8	1	0·53
452	... ...	9·6	1	18	35	44·76	137	15	47·7	1	0·55
453	... ...	9·0	3	18	41	5·79	127	26	58·9	3	0·62
454	O. A. S. 18778	9·0	1	18	45	3·01	118	17	36·7	1	0·53
455	10 Lyræ β^1, Var. 1 ...	Var.	...	18	45	25·64	56	46	57·4	10	0·64

430—431—445—448—449—451—452.—Comparison stars for Donati's comet of 1858.

435.—Comparison star for D'Arrest's comet of 1870.

439.—R. P. L. 125.

440.—R. P. L. 128.

441—443—446.—Observed for map of U Sagittarii, Var. 4.

454.—Comparison star for Amphitrite in 1863.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
421	... ...	+ 4·2224	+ 0·0091	...	+ 2·610	− 0·611	...	...
422	Taylor 8141	+ 3·6036	+ 0·0054	...	+ 2·515	− 0·522	...	...
423	56 Serpentis o ...	+ 3·3743	+ 0·0041	− 0·006	+ 2·241	− 0·490	+ 0·04	2225
424	... ...	+ 4·1471	+ 0·0075	...	+ 2·191	− 0·602	...	...
425	... ...	+ 4·0572	+ 0·0057	...	+ 1·695	− 0·591	...	...
426	86 Herculis μ ...	+ 2·3697	+ 0·0025	− 0·024	+ 1·614	− 0·346	+ 0·75	2237
427	... ...	+ 3·7949	+ 0·0045	...	+ 1·511	− 0·553	...	...
428	Radcliffe 3765 ...	− 1·1480	+ 0·0164	...	+ 1·437	− 0·166	...	...
429	31 Draconis ψ^2 ...	− 1·0866	+ 0·0156	− 0·001	+ 1·380	+ 0·157	+ 0·28	2252
430	... ...	+ 4·1371	+ 0·0049	...	+ 1·250	− 0·603	...	...
431	Lacaille 7499 ...	+ 4·1568	+ 0·0042	...	+ 0·967	− 0·605	...	...
432	33 Draconis γ ...	+ 1·3918	+ 0·0030	− 0·002	+ 0·553	− 0·203	+ 0·03	2267
433	... ...	+ 2·2743	+ 0·0021	...	− 0·379	− 0·382	...	...
434	13 Sagittarii μ^1 ...	+ 3·5876	+ 0·0009	− 0·001	− 0·545	− 0·523	− 0·00	2284
435	14 Sagittarii	+ 3·6052	+ 0·0009	− 0·003	− 0·586	− 0·526	+ 0·02	2286
436	... ...	+ 3·9194	+ 0·0001	...	− 0·646	− 0·571	...	...
437	15 Sagittarii	+ 3·5789	+ 0·0008	− 0·002	− 0·673	− 0·522	− 0·01	2288
438	Lacaille 7644 ...	+ 4·2891	− 0·0010	...	− 0·845	− 0·625	...	...
439	23 Ursæ Minoris δ ...	− 19·4462	− 0·3787	+ 0·026	− 1·185	+ 2·831	− 0·04	2395
440	24 Ursæ Minoris ...	− 22·2466	− 0·6558	+ 0·067	− 1·524	+ 3·236	+ 0·02	2417
441	O. A. S. 18326 ...	+ 3·5364	− 0·0010	...	− 2·094	− 0·512	...	...
442	V Sagittarii, Var. 5 ...	+ 3·5132	− 0·0010	...	− 2·097	− 0·509	...	...
443	Taylor 8527	+ 3·5167	− 0·0010	...	− 2·097	− 0·509	...	...
444	U Sagittarii, Var. 4 ...	+ 3·5354	− 0·0011	...	− 2·136	− 0·512	...	...
445	θ Coronæ Australis ...	+ 4·2861	− 0·0049	0·000	− 2·140	− 0·620	− 0·03	Stone
446	O. A. S. 18346 ...	+ 3·5353	− 0·0011	...	− 2·166	− 0·512	...	...
447	Taylor 8551	+ 5·3000	− 0·0153	...	− 2·460	− 0·767	...	...
448	... ...	+ 4·4070	− 0·0078	...	− 2·628	− 0·636	...	...
449	... ...	+ 4·4379	− 0·0080	...	− 2·633	− 0·641	...	...
450	3 Lyræ α	+ 2·0132	+ 0·0016	+ 0·017	− 2·849	− 0·290	− 0·30	2341
451	... ...	+ 4·4761	− 0·0098	...	− 3·084	− 0·644	...	...
452	... ...	+ 4·5017	− 0·0103	...	− 3·114	− 0·648	...	...
453	... ...	+ 4·0798	− 0·0075	...	− 3·577	− 0·584	...	...
454	O. A. S. 18773 ...	+ 3·7781	− 0·0055	...	− 3·916	− 0·538	...	...
455	10 Lyræ β^1, Var. 1 ...	+ 2·2139	+ 0·0015	− 0·001	− 3·949	− 0·315	− 0·02	2369

445.—Proper motions from *Stone's Cape Catalogue*.

Mean Positions of Stars for 1874, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
456	... ...	8·1	1	18	46	31·32	126	40	15·4	1	0·53
457	... ...	9·1	5	18	48	0·82	116	5	32·5	5	0·68
458	R. P. L. 131	6·5	...	18	55	48·88·51	3	27	8·8	6	0·67
459	... ...	10·0	3	18	57	53·55	111	20	19·5	3	0·68
460	17 Aquilæ ζ	3·1	...	18	59	37·08	76	19	20·5	13	0·66
461	... ...	9·6	2	19	5	49·51	126	27	18·5	2	0·52
462	... ...	9·0	1	19	7	47·65	129	46	40·9	1	0·53
463	... ...	9·4	1	19	9	0·06	129	48	3·5	1	0·58
464	... ...	9·6	3	19	9	41·75	109	31	45·7	3	0·70
465	... ...	8·4	2	19	10	3·34·46	129	46	7·8	2	0·71
466	... ...	8·1	2	19	10	54·57·62	146	11	55·8	2	0·69
467	O. A. S. 19353	7·6	2	19	10	56·57	116	17	57·0	2	0·58
468	O. A. S. 19366	8·1	1	19	11	15·39	116	16	0·8	1	0·55
469	25 Aquilæ ω	5·1	...	19	11	54·13	78	37	47·2	10	0·66
470	30 Aquilæ δ	3·5	...	19	19	8·64	87	8	4·2	16	0·66
471	52 Sagittarii h^3	4·6	...	19	29	2·17	115	9	34·4	10	0·69
472	13 Cygni θ...	4·6	...	19	33	3·84	40	4	10·3	2	0·54
473	... ...	9·0	1	19	35	3·39	127	15	43·9	1	0·66
474	50 Aquilæ γ	2·8	...	19	40	16·14	79	41	31·1	10	0·71
475	O. A. S. 19996	9·5	2	19	42	51·89	108	10	35·2	2	0·61
476	S Vulpeculæ, Var. 3 ...	8·9	1	19	43	13·91	63	1	37·5 (8·8)	1	0·66
477	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	38·10	81	27	44·6	9	0·72
478	Lacaille 8249	7·6	2	19	44	43·01	122	17	48·9	2	0·60
479	55 Aquilæ η, Var. 1 ...	Var.	...	19	46	3·36	89	18	57·7	6	0·66
480	O. A. S. 20055	9·0	1	19	46	54·01	107	44	16·9	1	0·68
481	60 Aquilæ β	4·0	...	19	49	7·48	83	54	21·9	5	0·73
482	... ...	8·7	1	19	50	21·81	145	55	17·4	1	0·68
483	O. A. N. 20046	9·2	7	20	2	52·51·10	32	21	48·8	7	0·69
484	... ...	9·4	7	20	5	50·63	74	46	39·5	7	0·71
485	R Sagittæ, Var. 1 ...	9·4	4	20	8	19·46 (8·71)	73	39	12·1	4	0·79
486	5 Capricorni a^1	4·5	...	20	10	39·72	102	53	44·9	4	0·61
487	6 Capricorni a^2	3·8	...	20	11	3·66	102	56	0·5	7	0·71
488	7 Capricorni σ	5·6	...	20	12	7·35	109	30	35·4	2	0·77
489	... ...	9·3	4	20	12	38·22	88	45	26·0	4	0·78
490	34 Cygni, Var. 1	Var.	...	20	13	8·62	52	21	29·0	6	0·67

457.—Comparison star Julia in 1874.
458.—Carrington 2882.
467—468.—Comparison stars for D'Arrest's comet in 1870.
480.—Comparison star for Hestia in 1869.
484.—Observed for map of S Aquilæ, Var. 4.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
456	... ...	+ 4·0473	− 0·0084	...	− 4·042	− 0·576	...	...
457	... ...	+ 3·7127	− 0·0054	...	− 4·171	− 0·528	...	...
458	R. P. L. 131	− 18·4343	− 1·5447	...	− 4·836	+ 2·612	...	...
459	... ...	+ 3·5780	− 0·0053	...	− 5·011	− 0·503	...	...
460	17 Aquilæ ξ	+ 2·7578	+ 0·0003	− 0·003	− 5·158	− 0·387	+ 0·09	2405
461	... ...	+ 4·0195	− 0·0121	...	− 5·680	− 0·560	...	...
462	... ...	+ 4·1369	− 0·0144	...	− 5·846	− 0·576	...	...
463	... ...	+ 4·1360	− 0·0146	...	− 5·947	− 0·574	...	...
464	... ...	+ 3·5248	− 0·0061	...	− 6·005	− 0·488	...	...
465	... ...	+ 4·1334	− 0·0149	...	− 6·034	− 0·573	...	...
466	... ...	+ 4·9745	− 0·0328	...	− 6·106	− 0·689	...	...
467	O. A. S. 19353 ...	+ 3·7015	− 0·0086	...	− 6·109	− 0·511	...	...
468	O. A. S. 19366 ...	+ 3·7004	− 0·0085	...	− 6·135	− 0·511	...	...
469	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·189	− 0·388	− 0·03	2432
470	30 Aquilæ δ	+ 3·0092	− 0·0018	+ 0·015	− 6·789	− 0·410	− 0·09	2451
471	52 Sagittarii h^3 ...	+ 3·6533	− 0·0102	+ 0·002	− 7·597	− 0·490	+ 0·01	2478
472	13 Cygni θ	+ 1·6120	− 0·0016	− 0·003	− 7·922	− 0·213	− 0·24	2498
473	... ...	+ 4·0031	− 0·0179	...	− 8·082	− 0·533	...	...
474	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·496	− 0·373	− 0·01	2511
475	O. A. S. 19996 ...	+ 3·4677	− 0·0087	...	− 8·702	− 0·452	...	...
476	S Vulpeculæ, Var. 3...	+ 2·4597	+ 0·0011	...	− 8·728	− 0·319	...	...
477	53 Aquilæ α	+ 2·8920	− 0·0014	+ 0·035	− 8·841	− 0·374	− 0·38	2524
478	Lacaille 8249 ...	+ 3·8307	− 0·0160	...	− 8·847	− 0·498	...	...
479	55 Aquilæ η, Var. 1...	+ 3·0580	− 0·0031	− 0·002	− 8·952	− 0·396	+ 0·00	2526
480	O. A. S. 20055 ...	+ 3·4541	− 0·0088	...	− 9·018	− 0·446	...	...
481	60 Aquilæ β	+ 2·9453	− 0·0020	+ 0·001	− 9·192	− 0·378	+ 0·47	2538
482	... ...	+ 4·8237	− 0·0479	...	− 9·289	− 0·621	...	...
483	O. A. N. 20046 ...	+ 1·2586	− 0·0074	...	− 10·244	− 0·154	...	...
484	... ...	+ 2·7618	− 0·0004	...	− 10·467	− 0·339	...	...
485	R Sagittarii, Var. 1...	+ 2·7398	− 0·0020	...	− 10·638	− 0·186	...	...
486	5 Capricorni α^1 ...	+ 3·3300	− 0·0084	− 0·001	− 10·824	− 0·406	− 0·03	2593
487	6 Capricorni α^2 ...	+ 3·3304	− 0·0084	− 0·002	− 10·854	− 0·403	− 0·02	2595
488	7 Capricorni σ ...	+ 3·4693	− 0·0115	− 0·001	− 10·932	− 0·420	− 0·01	2597
489	... ...	+ 3·0479	− 0·0037	...	− 10·969	− 0·367	...	...
490	34 Cygni, Var. 1 ...	+ 2·2103	+ 0·0019	− 0·001	− 11·006	− 0·265	− 0·00	2614

Mean Positions of Stars for 1874, *January* 1*st.*

	Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
	491	9 Capricorni β	3·4	...	20	13	55·63	105	10	36·9	1	0·53
	492	... ...	9·3	2	20	16	17·69	106	15	47·4	2	0·79
	493	... ...	9·0	1	20	17	28·18	121	9	54·6	1	0·72
37·28	494	24 Cephei (Hev), Var 1 ...	Var.	...	20	20	37·28 30·64	1	15	8·4	5	0·16
40·27	495	11 Capricorni ρ	5·0	...	20	21	40·26 97	108	13	41·2	11	0·73
	496	... ...	8·6	2	20	23	53·93	124	55	2·9	2	0·51
	497	R. P. L. 143	6·7	...	20	28	16·87	5	16	27·4	10	0·34
35·92	498	... ...	8·9	2	20	28	35·87 97	143	14	22·6	2	0·69
	499	... ...	9·5	1	20	29	20·32	121	4	25·5	1	0·53
	500	... ...	9·0	1	20	30	30·55	143	49	58·4	1	0·55
40·88	501	... ...	9·5	3	20	31	40·88 88	125	41	33·5	3	0·71
9·35	502	... ...	9·7	4	20	32	9·34 5	124	38	43·5	4	0·66
	503	50 Cygni α	1·5	...	20	37	8·16	45	10	8·3	13	0·76
	504	W. B. E. XX. 935 ...	8·5	4	20	37	15·44	73	20	55·9	5	0·60
31·37	505	T Delphini, Var. 3. ...	10·5	3	20	39	31·38 97	74	3	27·5	3	0·70
	506	W. B. E. XX. 1024 ...	9·6	1	20	41	26·51	105	22	7·6	1	0·67
17·38	507	T Aquarii, Var. 4. ...	8·0	5	20	43	17.37 8	95	36	45·7	5	0·73
	508	32 Vulpeculæ	5·1	...	20	49	11·39	62	25	14·3	10	0·77
46·75	509	R Vulpeculæ, Var. 3 ...	7·7	4	20	58	46·76 5	66	40	40·7	4	0·71
	510	... ...	9·7	1	20	59	21·86	148	50	18·2	1	0·67
	511	Taylor 9772	8·3	1	21	1	11·84	145	4	52·5	1	0·58
	512	61 Cygni—2nd	6·3	...	21	1	16·71	51	52	17·1	7	0·68
	513	64 Cygni ζ	3·5	...	21	7	34·37	60	17	20·3	12	0·78
56·84	514	... ...	10·6	2	21	8	56·83 9	110	46	40·1	2	0·70
	515	... ...	9·7	1	21	14	26·32	128	57	47·8	1	0·58
	516	T Capricorni, Var. 3 ..	9·2	4	21	14	59·03	105	37	39·6	4	0·68
	517	... ...	9·2	1	21	15	38·18	130	13	38·6	1	0·63
	518	... ...	9·7	1	21	23	31·53	110	4	51·0	1	0·58
	519	22 Aquarii β	3·1	...	21	24	55·44	96	7	26·9	18	0·78
29·14	520	... ...	9·5	3	21	29	29·10 4	134	1	41·3	3	0·70
	521	... ...	10·1	4	21	35	7·92	102	57	23·1	4	0·68
44·96	522	S Cephei, Var. 3	8·3	6	21	36	44·96 45·06	11	56	34·4	6	0·74
	523	8 Pegasi ε	2·4	...	21	37	59·74	80	42	5·1	5	0·81
	524	μ Cephei, Var. 2	Var.	...	21	39	39·45	31	47	50·1	2	0·65
20·70	525	... ...	10·3	1	21	41	20·70	102	29	42·4	1	0·84

492.—Comparison star for Hestia in 1865. 497.—Carrington 3128.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion	
		s	s	s	"	"	"	
491	9 Capricorni β ...	+ 3·3747	− 0·0095	+ 0·001	− 11·063	− 0·406	− 0·02	2609
492	... ...	+ 3·3953	− 0·0101	...	− 11·235	− 0·406	...	...
493	... ...	+ 3·7397	− 0·0191	...	− 11·320	− 0·447	...	...
494	24 Cephei(Hev),Var. 1	− 46·9387	− 24·7998	...	− 11·539	+ 5·604	...	...
495	11 Capricorni ρ ...	+ 3·4310	− 0·0115	− 0·003	− 11·622	− 0·403	+ 0·01	2626
496	... ...	+ 3·8275	− 0·0229	...	− 11·780	− 0·447	...	...
497	R. P. L. 143	− 8·4836	− 1·2718	...	− 12·089	+ 0·992	...	...
498	... ...	+ 4·4988	− 0·0515	...	− 12·111	− 0·520	...	...
499	... ...	+ 3·7129	− 0·0201	...	− 12·162	− 0·427	...	...
500	... ...	+ 4·5208	− 0·0535	...	− 12·244	− 0·519	...	...
501	... ...	+ 3·8301	− 0·0243	...	− 12·324	− 0·436	...	...
502	... ...	+ 3·7998	− 0·0234	...	− 12·358	− 0·432	...	...
503	50 Cygni α	+ 2·0435	+ 0·0021	− 0·000	− 12·698	− 0·226	− 0·00	2679
504	W. B. E. XX. 935 ...	+ 2·7629	+ 0·0002	...	− 12·706	− 0·307	...	...
505	T Delphini, Var. 3 ...	+ 2·7791	0·0000	...	− 12·856	− 0·305	...	...
506	W. B. E. XX. 1024 ...	+ 3·3523	− 0·0109	...	− 12·987	− 0·367	...	...
507	T Aquarii, Var. 4 ...	+ 3·1717	− 0·0066	...	− 13·110	− 0·345	...	...
508	32 Vulpeculæ ...	+ 2·5557	+ 0·0026	− 0·002	− 13·496	− 0·270	+ 0·00	2709
509	R Vulpeculæ, Var. 3..	+ 2·6625	+ 0·0022	...	− 14·105	− 0·271	...	...
510	... ...	+ 4·6400	− 0·0757	...	− 14·141	− 0·476	...	...
511	Taylor 9772	+ 4·4194	− 0·0624	...	− 14·254	− 0·449	...	...
512	61 Cygni—2nd ...	+ 2·3344	+ 0·0044	+ 0·350	− 14·260	− 0·233	− 3·03	2745
513	64 Cygni ζ	+ 2·5509	+ 0·0038	− 0·002	− 14·642	− 0·248	+ 0·07	2760
514	... ...	+ 3·4165	− 0·0149	...	− 14·724	− 0·332	...	...
515	... ...	+ 3·7872	− 0·0315	...	− 15·015	− 0·360	...	...
516	T Capricorni, Var. 3..	+ 3·3189	− 0·0120	...	− 15·076	− 0·314	...	...
517	... ...	+ 3·8156	− 0·0331	...	− 15·114	− 0·361	...	...
518	... ...	+ 3·3807	− 0·0147	...	− 15·558	− 0·305	...	...
519	22 Aquarii β... ...	+ 3·1620	− 0·0071	− 0·001	− 15·636	− 0·282	+ 0·00	2797
520	... .	+ 3·8614	− 0·0394	...	− 15·882	− 0·338	...	...
521	... ...	+ 3·2539	− 0·0106	...	− 16·181	− 0·273	...	...
522	S Cephei, Var. 3 ...	− 0·6261	− 0·1622	...	− 16·263	+ 0·059	...	...
523	8 Pegasi ε	+ 2·9451	− 0·0005	+ 0·001	− 16·327	− 0·242	− 0·01	2835
524	μ Cephei, Var. 2 ...	+ 1·8327	+ 0·0039	...	− 16·409	− 0·147	...	...
525	... ...	+ 3·2408	− 0·0104	...	− 16·495	− 0·263	...	...

Mean Positions of Stars for 1874, January 1st.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
526	... ...	7·9	2	21	41	42·31	37	16	40·8	2	0·78
527	51 Capricorni μ	5·2	...	21	46	25·46	104	8	36·3	1	0·67
528	16 Pegasi	5·0	...	21	47	19·82	64	40	1·7	4	0·81
529	34 Aquarii α	3·2	...	21	59	18·73	90	55	51·9	4	0·81
530	... ...	10·0	4	22	2	33·91	114	56	52·6	3	0·83
531	... ...	9·5	3	22	2	35·31	114	51	49·6	3	0·76
532	... ...	9·4	2	22	3	46·97	129	2	26·6	2	0·78
533	... ...	9·0	1	22	3	51·52	101	5	59·9	1	0·71
534	38 Aquarii ϵ^2	5·4	...	22	3	53·33	102	11	0·3	1	0·77
535	Lalande 43402	9·1	3	22	8	54·97	99	1	19·6	3	0·69
536	48 Aquarii θ	4·3	...	22	10	11·02	98	24	34·8	6	0·84
537	... ...	9·6	2	22	14	53·61	146	31	27·3	2	0·68
538	... ...	8·1	2	22	15	51·07	82	44	24·1	2	0·86
539	... ...	10·2	2	22	16	29·31	82	39	36·3	2	0·72
540	... ...	9·7	3	22	19	38·75	88	39	50·3	3	0·73
541	R. P. L. 150	5·5	...	22	23	1·36	4	31	38·9	2	0·14
542	R. P. L. 151	6·9	...	22	23	29·89	4	24	47·0	11	0·45
543	... ...	9·6	3	22	25	12·70	129	41	34·9	3	0·72
544	... ...	9·6	3	22	25	18·90	146	47	30·7	3	0·85
545	R. P. L. 153	7·6	...	22	28	10·24	2	33	31·5	7	0·30
546	62 Aquarii η	4·2	...	22	28	52·79	90	45	58·3	4	0·82
547	... ...	9·0	1	22	34	53·41	155	28	11·8	1	0·71
548	42 Pegasi ζ...	3·6	...	22	35	10·62	79	49	31·6	8	0·86
549	... ...	9·0	2	22	49	42·46	152	32	1·5	2	0·76
550	24 Pis. Aust. α, *(Fomalhaut)*	1·3	...	22	50	40·96	120	17	22·2	6	0·83
551	... ...	9·0	1	22	52	21·18	85	23	15·6	1	0·68
552	... ...	9·8	2	22	57	40·53	57	8	50·2	2	0·78
553	54 Pegasi α	2·6	...	22	58	29·09	75	28	18·9	8	0·85
554	Lacaille 9377	7·6	1	23	2	49·29	151	14	47·4	1	0·77
555	6 Piscium γ	3·8	...	23	10	37·95	87	24	20·1	6	0·86
556	... ...	9·6	2	23	11	41·84	151	12	30·1	2	0·83
557	... ...	9·5	2	23	12	7·01	131	4	54·9	2	0·77
558	... ...	9·4	3	23	12	10·80	129	54	36·7	3	0·79
559	... ...	8·8	1	23	12	41·17	137	0	38·2	1	0·82
560	Groombridge 4040 ...	6·5	2	23	13	20·20	16	59	56·9	2	0·76

531.—Comparison star for D'Arrest's comet in 1870.

535.—Comparison star for Ausonia in 1862.

541.—Groombridge 3826.

542.—Groombridge 3824.

545.—Carrington 3466.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
526	... ...	+ 2·0758	+ 0·0075	...	− 16·515	− 0·165	...	...
527	51 Capricorni μ ...	+ 3·2577	− 0·0113	+ 0·018	− 16·744	− 0·255	− 0·01	2860
528	16 Pegasi	+ 2·7259	+ 0·0052	− 0·001	− 16·787	− 0·210	+ 0·00	2864
529	34 Aquarii α... ...	+ 3·0831	− 0·0041	− 0·001	− 17·338	− 0·219	− 0·00	2890
530	... ...	+ 3·3771	− 0·0155	...	− 17·480	− 0·233	...	...
531	... ...	+ 3·3759	− 0·0182	...	− 17·481	− 0·233	...	...
532	... ...	+ 3·5988	− 0·0312	...	− 17·530	− 0·236	...	...
533	... ...	+ 3·1994	− 0·0092	...	− 17·534	− 0·219	...	...
534	38 Aquarii ϵ^2 ...	+ 3·2122	− 0·0099	+ 0·001	− 17·536	− 0·220	− 0·01	2909
535	Lalande 43402 ...	+ 3·1711	− 0·0079	...	− 17·745	− 0·207	...	...
536	43 Aquarii θ	+ 3·1633	− 0·0075	+ 0·006	− 17·796	− 0·205	+ 0·02	2929
537	... ...	+ 3·9673	− 0·0679	...	− 17·982	− 0·249	...	...
538	... ...	+ 2·9975	0·0000	...	− 18·019	− 0·185	...	...
539	... ...	+ 2·9971	+ 0·0001	...	− 18·044	− 0·184	...	...
540	... ...	+ 3·0589	− 0·0025	...	− 18·162	− 0·181	...	...
541	R. P. L. 150	− 3·8606	− 1·2082	+ 0·052	− 18·286	+ 0·240	− 0·04	2993
542	R. P. L. 151	− 4·0098	− 1·2752	+ 0·025	− 18·302	− 0·247	− 0·01	2997
543	... ...	+ 3·5182	− 0·0324	...	− 18·363	− 0·199	...	...
544	... ...	+ 3·8922	− 0·0676	...	− 18·367	− 0·221	...	...
545	R. P. L. 153	− 8·5967	− 4·0586	...	− 18·466	+ 0·497	...	...
546	62 Aquarii η... ...	+ 3·0791	− 0·0031	+ 0·006	− 18·490	− 0·166	+ 0·11	2979
547	... ...	+ 4·1354	− 0·1067	...	− 18·687	− 0·213	...	...
548	42 Pegasi ζ	+ 2·9854	+ 0·0023	+ 0·004	− 18·697	− 0·149	+ 0·02	2992
549	... ...	+ 3·8487	− 0·0848	...	− 19·118	− 0·162	...	...
550	24 Piscis Australis α.	+ 3·3048	− 0·0210	+ 0·023	− 19·145	− 0·135	+ 0·16	3032
551	... ...	+ 3·0409	+ 0·0005	...	− 19·187	− 0·122	...	...
552	... ...	+ 2·8403	+ 0·0144	...	− 19·317	− 0·104	...	...
553	54 Pegasi α	+ 2·9803	+ 0·0056	+ 0·003	− 19·336	− 0·107	+ 0·03	3050
554	Lacaille 9377 ...	+ 3·6739	− 0·0753	...	− 19·433	− 0·126	...	...
555	6 Piscium γ	+ 3·0592	+ 0·0005	0·049	− 19·591	− 0·087	− 0·02	3082
556	... ...	+ 3·5813	− 0·0721	...	− 19·610	− 0·103	...	...
557	... ...	+ 3·3140	− 0·0304	...	− 19·618	− 0·093	...	...
558	... ...	+ 3·3039	− 0·0290	...	− 19·619	− 0·093	...	...
559	... ...	+ 3·3663	− 0·0384	...	− 19·628	− 0·094	...	...
560	Groombridge 4040 ...	+ 2·1878	+ 0·0392	...	− 19·640	− 0·057	...	...

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
561	T Cephei, Var. 4	8·4	8	23	14	54·27·42	34	34	32·9	9	0·88
562	... ...	10·0	3	23	16	14·60	130	36	27·8	3	0·85
563	... ...	10·1	2	23	18	47·7668	131	5	9·3	2	0·87
564	... ...	9·6	1	23	20	14·87 3	109	16	3·2	1	0·86
565	... ...	9·6	2	23	20	17·27·19	151	34	49·4	2	0·84
566	8 Piscium κ	5·0	...	23	20	28·36	89	26	2·1	6	0·90
567	Lacaille 9514	8·9	1	23	26	25·28	131	32	29·1	1	0·76
568	... ...	9·0	1	23	28	13·02 9	108	24	24·0	1	0·76
569	17 Piscium ι	4·3	...	23	33	28·14 5	85	3	21·1	10	0·91
570	35 Cephei γ	3·4	...	23	34	11·60	13	4	15·3	5	0·77
571	... ...	9·5	1	23	34	53·34	147	24	8·8	1	0·79
572	... ...	10·1	4	23	35	34·85 12	107	45	47·8	4	0·88
573	... ...	9·6	4	23	35	43·58	107	46	6·5	4	0·81
574	... ...	9·9	4	23	35	59·31·27	107	51	6·9	4	0·85
575	... ...	9·6	2	23	36	30·55 2	128	6	22·3	2	0·86
576	δ Sculptoris	4·6	...	23	42	21·69 57	118	49	36·2	9	0·90
577	... ...	9·4	2	23	43	14·73	150	50	45·2	2	0·80
578	... ...	9·4	1	23	43	18·45	129	40	27·4	1	0·71
579	... ...	9·0	5	23	43	34·12	85	18	6·4	5	0·81
580	... ...	9·5	1	23	48	2·79	150	42	32·2	1	0·77
581	G. C. Z. XXIII. 1321 ...	9·4	2	23	48	29·12	150	40	19·8	2	0·92
582	R Cassiopeiæ, Var. 3 ...	8·3	6	23	52	0·87	39	18	47·2	6	0·78
583	... ...	8·6	1	23	52	16·84	152	17	15·8	1	0·71
584	... ...	9·6	2	23	52	30·72·61	143	12	39·3	2	0·83
585	28 Piscium ω	4·2	...	23	52	50·50 2	83	50	1·7	4	0·91
586	30 Piscium	4·6	...	23	55	29·90	96	42	50·1	4	0·92
587	... ...	9·5	1	23	56	29·74	130	13	40·7	1	0·84
588	... ...	9·4	2	23	56	57·20	126	40	1·3	2	0·77
589	Taylor 10997	9·3	1	23	58	34·80 26	126	43	9·2	1	0·86
590	... ...	9·1	2	23	59	6·21·19	125	49	53·6	2	0·79

564—568—572—573—574.—Comparison stars for D'Arrest's comet in 1870.

579.—Comparison star for Ariadne in 1874.

Observed with the Madras Meridian Circle in that Year.

Number.	Star	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
561	T Cephei, Var. 1 ...	+ 2·6930	+ 0·0316	...	− 19·668	− 0·069	...	...
562	... ...	+ 3·2958	+ 0·0295	...	− 19·689	− 0·084	...	...
563	... ...	+ 3·2807	− 0·0304	...	− 19·731	− 0·078	...	...
564	... ...	+ 3·1528	− 0·0111	...	− 19·753	− 0·071	...	...
565	... ...	+ 3·4982	− 0·0703	...	− 19·753	− 0·081	...	...
566	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·757	− 0·069	+ 0·10	3116
567	Lacaille 9514 ...	+ 3·2451	− 0·0293	...	− 19·839	− 0·061	...	...
568	... ...	+ 3·1337	− 0·0101	...	− 19·861	− 0·054	...	...
569	17 Piscium ι	+ 3·0588	+ 0·0030	+ 0·023	− 19·921	− 0·042	+ 0·44	3148
570	35 Cephei γ	+ 2·4251	+ 0·0748	− 0·020	− 19·928	− 0·031	− 0·14	3152
571	... ...	+ 3·3008	− 0·0532	...	− 19·934	− 0·045	...	...
572	... ...	+ 3·1177	− 0·0092	...	− 19·941	− 0·039	...	...
573	... .	+ 3·1175	− 0·0092	...	− 19·942	− 0·039	...	...
574	... ...	+ 3·1172	− 0·0093	...	− 19·945	− 0·038	...	...
575	... ...	+ 3·1793	− 0·0244	...	− 19·949	− 0·039	...	...
576	8 Sculptoris	+ 3·1288	− 0·0161	+ 0·009	− 19·995	− 0·026	+ 0·10	Stone
577	... ...	+ 3·2474	− 0·0590	...	− 20·001	− 0·027	...	...
578	... ...	+ 3·1529	− 0·0251	...	− 20·001	− 0·025	...	...
579	... ...	+ 3·0643	+ 0·0034	...	− 20·003	− 0·023	...	...
580	... ...	+ 3·1965	− 0·0566	...	− 20·026	− 0·016	...	...
581	G. C. Z. XXIII. 1321.	+ 3·1918	− 0·0561	...	− 20·030	− 0·015	...	...
582	R Cassiopeiæ, Var. 3.	+ 3·0154	+ 0·0364	...	− 20·042	− 0·007	...	...
583	... ...	+ 3·1580	− 0·0590	...	− 20·042	− 0·008	...	...
584	... ...	+ 3·1307	− 0·0402	...	− 20·043	− 0·007	...	...
585	28 Piscium ω... ...	+ 3·0677	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191
586	30 Piscium	+ 3·0752	− 0·0019	+ 0·002	− 20·051	0·000	+ 0·03	3197
587	... ...	+ 3·0896	− 0·0240	...	− 20·052	+ 0·001	...	...
588	... ...	+ 3·0854	− 0·0208	...	− 20·053	+ 0·003	...	...
589	Taylor 10997 ...	+ 3·0783	− 0·0206	...	− 20·054	+ 0·006	...	...
590	... ...	+ 3·0760	− 0·0198	...	− 20·054	+ 0·007	...	...

576.—Proper motions from *Stone's Cape Catalogue.*

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1875

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
1		*21 Andromedæ a, Alpherat.*			
Nov. 23	...	0 1 55·91	...	61 36 0·2	R
2		*W. B. E.* 0·28.			
Sep. 11	7·8	0 3 39·16	...	99 40 11·8	R
14	8·0	3 39·27	...	40 13·1	R
21	7·8	3 39·29	...	40 13·9	R
24	8·0	3 39·21	...	40 12·8	R
25	8·0	3 39·28	...	40 11·3	R
3		*W. B. E.* 0·41.			
Sep. 22	9·1	0 4 5·68	...	99 59 10·0	R
28	9·2	4 5·67	...	59 8·4	R
Oct. 7	9·3	4 5·54	...	59 10·7	M
11	9·1	4 5·70	...	59 10·7	M
12	9·2	4 5·58	...	59 8·6	M
4		*W. B. E.* 0·76.			
Sep. 29	9·5	0 5 58·49	...	99 24 19·7	R
Oct. 13	9·1	5 58·68	...	24 17·9	M
14	9·1	5 58·70	...	24 18·0	M
22	9·0	5 58·77	...	24 18·7	M
25	9·0	5 58·53	...	24 19·7	M
5		*88 Pegasi γ, Algenib.*			
Nov. 27	...	0 6 47·99	...	75 30 42·7	R
29	...	6 47·99	...	30 42·5	R
6		*T Cassiopeiæ, Var.* 5.			
Nov. 3	8·2	0 16 28·63	...	34 54 3·3	R
4	8·3	16 28·58	...	54 2·4	R
5	8·5	16 28·47	...	54 2·0	R
6	8·5	16 28·41	...	54 3·5	R
8	8·3	16 28·57	...	54 2·5	R
9	8·5	16 28·30	...	54 3·4	R
11	8·5	16 28·32	...	54 2·4	R
15	8·5	16 28·51	...	54 1·4	R
16	8·5	16 28·56	...	54 3·1	R
17	8·5	16 28·43	...	54 2·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
7		*S Ceti, Var.* 3.			
Sep. 11	9·0	0 17 41·84	...	100 1 16·2	R
14	9·2	17 41·96	...	1 16·1	R
21	9·0	17 42·02	...	1 16·1	R
22	9·2	17 41·99	...	1 16·3	R
24	9·3	17 41·74	...	1 15·9	R
25	9·4	17 41·82	...	1 14·2	R
28	9·5	17 41·97	...	1 14·4	R
29	9·9	17 41·98	...	1 14·6	R
Oct. 2	9·7	17 42·06	...	1 16·0	M
11	10·1	17 42·12	...	1 18·3	M
8		*12 Ceti.*			
Nov. 16	...	0 23 39·48	...	94 38 53·5	R
9		*T Piscium, Var.* 3.			
Nov. 3	10·6	0 25 31·78	3	76 5 25·3	R
4	10·5	25 31·69	3	5 23·0	R
6	10·5	25 31·74	3	5 23·7	R
8	10·5	25 31·99	3	5 22·2	R
27	10·5	25 31·82	5	5 23·0	R
30	10·5	25 31·86	...	5 21·7	R
10		*Anon.*			
Sep. 28	10·5	0 25 56·53	...	76 5 34·8	R
Nov. 2	10·5	25 56·73	...	5 35·5	R
11		*16 Ceti β*			
Nov. 12	...	0 37 18·79	...	108 40 22·4	R
29	...	37 18·86	...	40 23·0	R
30	...	37 19·01	...	40 23·1	R
12		*R. P. L.* 10.			
Nov. 3	...	0 49 36·80	3	1 38 52·4	R
13		*2 Ursæ Minoris.*			
Oct. 13	...	0 52 1·05	3	4 24 53·1	M
22	...	52 0·54	3	24 52·6	M
23	...	52 0·44	3	24 52·7	M
25	...	52 0·33	3	24 52·3	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
Nov. 1	...	0 52 1·13	3	4 24 53·2	R
4	...	51 59·64	3	24 53·5	R
25	...	52 1·26	3	24 51·7	R
Dec. 8	...	52 1·14	2	24 52·1	M
14		*R. P. L.* 14.			
Nov. 2	...	0 55 ~~28·23~~ 30·46	3	3 31 15·3	R
19	..	55 ~~27·14~~ 30·34	3	31 15·5	R
30	...	55 ~~27·20~~ 30·37	3	31 13·9	R
		R. P. L. 14.—*s.p.*			
Mar. 24	...	0 55 ~~27·89~~ 29·49	3	3 31 16·9	R
Apl. 3	...	55 ~~27·33~~ 30·71	3	31 16·3	M
15		71 *Piscium* ϵ			
Nov. 12	...	0 56 27·43	...	82 46 59·4	R
27	...	56 27·44	...	47 0·0	R
Dec. 2	...	56 27·40	...	46 59·7	M
16		*R. P. L.* 18.			
Oct. 11	...	1 11 40·21	3	2 5 22·0	M
22	...	11 39·73	3	5 19·8	M
23	...	11 39·37	3	5 22·4	M
25	...	11 40·46	3	5 22·2	M
26	...	11 ~~39·74~~ 41·42	3	5 22·4	M
27	...	11 ~~38·53~~ 41·23	3	5 22·5	M
Nov. 16	...	11 38·91	3	5 23·3	R
		R. P. L. 18—*s.p.*			
Mar. 20	...	1 11 39·67	2	2 5 22·6	R
17		1 *Ursæ Minoris* α, *Polaris.*			
Apl. 8	...	1 13 0·61	3	1 21 29·5	M
12	...	12 59·39	3	21 30·3	M
9		1 12 59·76	3	1 21 31·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
18		45 *Ceti* θ^1			
Nov. 12	...	1 17 46·47	...	98 49 43·7	R
Dec. 1	...	17 46·36	...	49 44·0	M
2	...	17 46·55	...	49 44·5	M
10	...	17 46·54	...	49 44·1	M
11	...	17 46·57	...	49 44·7	M
14	...	17 46·56	...	49 43·4	M
19		99 *Piscium* η			
Nov. 29	...	1 24 47·70	...	75 17 58·4	R
Dec. 1	...	24 47·95	...	17 59·1	M
2	...	24 47·63	...	17 58·8	M
8	...	24 47·77	...	17 58·2	M
10	...	24 47·67	...	17 59·1	M
14	...	24 47·72	...	17 56·0	M
20		106 *Piscium* ν			
Nov. 30	...	1 34 55·53	...	85 8 42·2	R
Dec. 1	...	34 55·52	...	8 44·7	M
8	...	34 55·55	...	8 42·8	M
21	...	34 55·59	...	8 43·7	M
21		6 *Arietis* β			
Nov. 30	...	1 47 ~~44·05~~ 44·11	...	69 48 11·5	R
Dec. 8	...	47 44·15	...	48 15·4	M
18	...	47 44·15	...	48 13·3	M
20	...	47 44·17	...	48 12·8	M
21	...	47 44·16	...	48 13·6	M
22	...	47 44·34	...	48 15·1	M
22		13 *Arietis* α			
Nov. 20	...	2 0 7·67	...	67 7 45·4	R
Dec. 11	...	0 7·69	...	7 46·4	M
14	...	0 7·69	...	7 46·0	M
21	...	0 7·74	...	7 48·5	M
22	...	0 7·70	...	7 47·9	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
23		*67 Ceti.*			
Jan. 5	...	2 10 45·05	...	96 59 55·4	R
Nov. 20	...	10 44·92	...	59 55·7	R
Dec. 20	...	10 44·86	...	59 57·3	M
22	...	10 44·77	...	59 57·6	M
25	...	10 44·88	...	59 57·1	M
24		*73 Ceti* ξ^2			
Jan. 2	...	2 21 30·84	...	82 6 3·0	R
5	...	21 30·81	...	6 2·1	R
Nov. 20	...	21 30·89	...	6 2·9	R
Dec. 10	...	21 30·84	...	6 5·1	M
25	...	21 30·81	4	6 4·8	M
25		*R. P. L.* 26.			
Jan. 8	...	2 25 22·36	3	3 29 57·8	R
Dec. 18	...	25 22·15	2	29 57·9	M
21	...	25 22·17	3	29 58·7	M
22	...	25 21·66	3	29 57·9	M
		R. P. L. 26—*s.p.*			
Apl. 6	...	2 25 21·78	3	3 30 0·6	M
15	...	25 22·16	3	30 1·1	M
16	...	25 21·03	3	30 1·7	M
17	...	25 21·50	3	29 58·2	M
21	...	25 20·68	3	30 0·0	M
May 5	...	25 20·26	3	30 1·3	R
6	...	25 22·15	3	30 2·2	R
7	...	25 21·98	3	30 2·8	R
8	...	25 21·74	3	30 1·2	R
10	...	25 21·66	3	30 0·3	R
26		*Lacaille* 849—*1st.*			
Oct. 22	8·1	2 36 18·08	...	150 6 17·9	M
25	8·0	36 18·14	...	6 18·7	M
27		86 *Ceti* γ^2			
Jan. 5	...	2 36 49·44	...	87 17 29·2	R
6	...	36 49·43	...	17 29·4	R
11	...	36 49·48	...	17 28·8	R
Jan. 13	...	2 36 49·49	...	87 17 29·2	R
Dec. 18	...	36 49·51	...	17 30·6	M
20	...	36 49·47	...	17 31·8	M
28		*T Arietis, Var.* 3.			
Oct. 26	8·1	2 41 21·56	...	73 0 48·4	M
27	8·2	41 21·51	...	0 50·2	M
29	8·3	41 21·59	...	0 49·8	M
30	8·3	41 21·66	...	0 48·8	M
Nov. 1	8·2	41 21·55	...	0 50·6	R
2	8·3	41 21·46	...	0 49·1	R
3	8·2	41 21·46	...	0 49·3	R
4	8·2	41 21·41	...	0 49·7	R
9	8·0	41 21·38	...	0 50·1	R
12	8·1	41 21·36	...	0 49·0	R
29		*Anon.*			
Jan. 12	10·0	2 46 10·63	...	150 9 39·1	R
13	10·0	46 10·59	...	9 39·6	R
14	10·1	46 10·52	...	9 37·0	R
16	10·0	46 10·72	...	9 32·5	R
18	10·0	46 10·69	...	9 34·3	R
30		92 *Ceti a, Menkar.*			
Jan. 2	...	2 55 44·73	...	86 24 4·1	R
6	...	55 44·70	...	24 4·4	R
11	...	55 44·60	...	24 5·2	R
12	...	55 44·85	...	24 5·5	R
14	...	55 44·65	...	24 3·9	R
16	...	55 44·82	...	24 6·4	R
Dec. 18	...	55 44·70	...	24 5·5	M
25	...	55 44·75	...	24 5·9	M
31		*R. P. L.* 33.			
Jan. 5	...	3 3 3·84	3	5 32 15·5	R
16	...	3 4·12	3	32 16·4	R
Dec. 25	...	3 4·93	2	32 15·2	M
		R. P. L. 33—*s.p.*			
Apl. 19	...	3 3 4·15	3	5 32 19·4	M
30	...	3 4·63	3	32 21·2	M
May 4	...	3 3·33	3	32 19·7	R
5	...	3 3·60	3	32 19·2	R
6	...	3 2·14	3	32 17·5	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
32		*57 Arietis δ*			
Jan. 8	...	3 4 28·91	...	70 44 53·1	R
11	...	4 29·14	...	44 52·4	R
13	...	4 29·09	...	44 52·8	R
14	...	4 28·96	...	44 52·1	R
18	...	4 29·04	...	44 48·8	R
33		*Anon.*			
Jan. 5	10·3	3 13 13·61	...	131 44 21·1	R
6	10·3	13 13·67	...	44 20·2	R
34		*R. P. L.* 34.			
Jan. 2	...	3 25 44·75	3	3 45 6·2	R
6	...	25 44·67	3	45 4·8	R
11	...	25 44·04	3	45 5·4	R
20	...	25 43·97	3	45 7·6	R
Nov. 27	...	25 44·05	3	45 7·0	R
		R. P. L. 34—*s.p.*			
Apl. 16	...	3 25 45·73	3	3 45 11·4	M
21	...	25 45·26	3	45 9·8	M
23	...	25 ~~44·77~~ 45·55	3	45 8·0	M
24	...	25 45·54	2	45 9·7	M
27	...	25 44·81	3	45 10·5	M
May 12	...	25 45·03	3	45 8·5	R
13	...	25 45·28	3	45 8·3	R
15	...	25 45·58	3	45 8·3	R
35		*25 Tauri η, Alcyone.*			
Jan. 2	...	3 40 3·38	...	66 17 0·6	R
6	...	40 3·45	...	16 59·2	R
8	...	40 3·42	...	16 59·9	R
12	...	40 3·29	...	17 1·6	R
13	...	40 3·25	...	17 1·0	R
16	...	40 3·30	...	17 0·1	R
18	...	40 3·33	...	16 57·4	R
20	...	40 3·34	...	16 59·5	R
22	...	40 3·33	...	16 58·5	R
26	...	40 3·32	...	16 59·5	R
28	...	40 3·45	...	16 57·2	R
Dec. 25	...	40 3·37	...	16 59·4	M

Number and Date.	Magnitude.	Mean Right Ascension. 1875. h. m. s.	No. of Wires.	Mean Pclar Distance. 1875. ° ′ ″	Observer.
36		*34 Eridani* γ^1			
Jan. 8	...	3 52 11·84	...	103 51 56·0	R
12	...	52 11·78	...	51 55·0	R
14	...	52 11·95	...	51 55·9	R
20	...	52 11·82	...	51 57·2	R
22	...	52 11·88	...	51 54·5	R
26	...	52 11·76	...	51 55·0	R
27	...	52 11·81	...	51 53·6	R
29	...	52 11·84	...	51 56·0	R
Dec. 11	...	52 11·77	...	51 56·2	M
37		*R. P. L.* 35.			
Jan. 13	...	3 57 57·95	3	4 46 39·9	R
18	...	57 57·88	3	46 39·0	R
28	...	57 57·82	3	46 37·9	R
		R P. L. 35—*s.p.*			
Apl. 13	...	3 57 56·77	3	4 46 42·4	M
June 9	...	57 59·03	5	46 42·2	M
July 16	...	57 58·72	3	46 42·9	R
3		*Lalande* 7655.			
Dec. 21	8·0	4 1 4·42	...	70 35 53·5	M
22	8·0	1 4·66	...	35 53·3	M
25	8·0	1 4·63	...	35 53·2	M
39		*Anon.*			
Jan. 27	10·0	4 3 6·40	...	67 14 27·9	R
28	10·0	3 6·38	...	14 27·8	R
29	10·0	3 6·14	...	14 26·4	R
30	10·0	3 6·28	...	14 26·6	R
40		*Anon.*			
Nov. 19	10·0	4 4 ~~2·46~~ 57	...	ε 28·2	R
20	10·0	4 2·66	...	·9	R
41		*T Tauri, Var.* 4.			
Jan. 6	10·8	4 4 27·57	4	60 30 55·1	R
8	11·0	4 27 76	2	30 56·5	R
11	11·0	4 27·54	3	30 54·0	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
42		*Anon.*			
Jan. 20	10·2	4 5 12·60	...	67 14 47·2	R
Nov. 23	10·0	5 12·93	...	14 48·3	R
27	10·0	5 12·85	...	14 48·4	R
29	10·0	5 12·77	...	14 45·5	R
30	10·0	5 12·61	...	14 43·8	R
43		*Anon.*			
Feb. 2	10·0	4 5 38·97	...	67 13 57·3	M
3	9·9	5 38·90	...	13 57·1	M
4	10·0	5 38·78	...	13 58·4	M
5	9·8	5 38·72	...	13 58·5	M
6	9·8	5 38·82	...	13 58 2	M
44		38 *Eridani* o^1			
Jan. 16	...	4 5 45·78	...	97 9 53·1	R
23	...	5 45·84	...	9 51·9	R
45		*U Tauri, Var.* 7.			
Feb. 2	9·7	4 14 32·09	...	70 29 0·0	M
46		74 *Tauri* ϵ			
Jan. 18	...	4 21 19·10	...	71 5 53·2	R
20	...	21 19·11	...	5 56·1	R
21	...	21 19 05	...	5 55 8	R
22	...	21 19·07	...	5 54·8	R
27	...	21 19 09	...	5 53·9	R
29	...	21 19·08	...	5 56·4	R
Feb. 6	...	21 19·15	...	5 56·1	M
47		*Anon.*			
Nov. 29	9·8	4 22 19·41	...	70 38 9·2	R
30	9·7	22 19·29	...	38 6·4	R
Dec. 1	9 7	22 19·53	4	38 9 6	M
8	9·5	22 19·19	...	38 9·5	M
11	9·5	22 19·36	...	38 9·2	M
48		*Anon.*			
Jan. 5	10·1	4 22 38·43	...	80 26 33·6	R
6	10·1	22 38·44	...	26 33·0	R
49		87 *Tauri* α, *Aldebaran.*			
Jan. 21	...	4 28 45·05	...	73 44 38·9	R
23	...	28 44·94	...	44 37·2	R
28	...	28 44·88	...	44 38·6	R
30	...	28 44·99	...	44 39·3	R
50		*V Tauri, Var.* 8.			
Jan. 11	10·0	4 44 48·45	...	72 40 36·5	R
12	10·0	44 48·53	...	40 37·1	R
13	10·0	44 48·57	...	40 35·9	R
14	10·1	44 48·49	...	40 38·0	R
16	9·9	44 48·41	...	40 33·6	R
18	9·9	44 48 41	...	40 34·4	R
20	9·9	44 48 61	...	40 35·1	R
21	9·8	44 48 57	...	40 33·9	R
22	9·8	44 48·34	...	40 32·5	R
27	9·8	44 48·50	...	40 34·4	R
51		3 *Aurigæ* ι			
Jan. 23	...	4 48 51·23	...	57 2 1·6	R
26	...	48 51·38	...	2 3·4	R
29	...	48 51·26	...	2 3·2	R
Feb. 1	...	48 51·25	...	2 1·7	M
3	...	48 51·41	...	2 2·9	M
4	...	48 51·38	...	2 2·5	M
5	...	48 51·51	...	2 3·2	M
6	...	48 51·40	...	2 3·2	M
52		2 *Leporis* ϵ			
Jan. 21	...	5 0 10·09	...	112 32 24·9	R
27	...	0 10·13	...	32 24·3	R
28	...	0 10 12	...	32 26 0	R
Feb. 2	...	0 10·15	...	32 26·1	M
3	...	0 10·16	...	32 26 6	M
4	...	0 10·13	...	32 25·4	M
5	...	0 10·05	...	32 26·3	M
53		112 *Tauri* β			
Jan. 30	...	5 18 23·43	...	61 30 3·7	R
Feb. 1	...	18 23·57	...	30 1·9	M
2	...	18 23·56	...	30 2·0	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
Feb. 3	...	5 18 23·35	...	61 30 1·6	M
4	...	18 23·40	...	30 1·0	M
5	...	18 23·34	...	30 2·9	M
8	...	18 23·45	...	30 2·6	M
54	*R. P. L.* 40—*s.p.*				
May 15	...	5 22 8·14	3	4 52 27·5	R
18	...	22 8·65	3	52 28·5	R
19	...	22 8·58	3	52 27·0	R
20	...	22 8·69	3	52 27·1	R
55	34 *Orionis* δ, *Var.* 1.				
Feb. 2	...	5 25 37·20	...	90 23 37·5	M
6	...	25 37·10	...	23 35·7	M
8	...	25 37·31	...	23 36·3	M
56	46 *Orionis* ϵ				
Feb. 1	...	5 29 52·15	...	91 17 1·0	M
57	*R. P. L.* 42.				
Jan. 30	...	5 32 ~~27·28~~	3	2 41 12·1	R
	R. P. L. 42—*s.p.*				
May 26	...	5 32 26·67	3	2 41 12·3	R
28	...	32 26·76	3	41 9·8	R
Aug. 23	...	32 ~~28·00~~	3	41 12·9	M
30	...	32 ~~27·69~~	3	41 12·7	M
58	58 *Orionis* a, *Var.* 2.				
Jan. 30	...	5 48 ~~24·61~~	...	82 37 4·9	R
Feb. 8	...	48 24·27	...	37 5·8	M
59	*Anon.*				
Jan. 21	9·0	5 51 27·08	...	141 51 50·9	R
22	9·0	51 27·09	...	51 54·7	R
26	9·1	51 26·95	...	51 52·7	R
27	9 3	51 26·73	...	51 51·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
60	*R. P. L.* 43—*s.p.*				
May 22	...	5 56 53·78	3	3 14 17·6	R
24	...	56 53·84	3	14 17·7	R
June 8	...	56 54·25	3	14 19·9	M
61	67 *Orionis* ν				
Feb. 11	...	6 0 26·17	...	75 13 5·5	M
62	*Lalande* 12072.				
Jan. 16	7·5	6 13 46·15	...	68 48 54·3	R
18	7·5	13 46·30	...	48 51·6	R
63	13 *Geminorum* μ				
Feb. 10	...	6 15 23·88	...	67 25 27·9	M
Mar. 2	...	15 23·88	...	25 28·7	R
64	24 *Geminorum* γ				
Feb. 10	...	6 30 29·52	...	73 29 45·9	M
11	...	30 29·35	...	29 46·6	M
12	...	30 29·46	...	29 45·2	M
13	...	30 29·50	...	29 45·5	M
15	...	30 29·39	...	29 44·9	M
16	...	30 29·50	...	29 47·9	M
18	...	30 29·46	...	29 47·6	M
19	...	30 29·53	...	29 45·9	M
65	*R Monocerotis, Var.* 1.				
Mar. 3	...	6 32 20·23	...	81 9 14·4	R
4	...	32 20·21	...	9 10·2	R
5	...	32 20·42	...	9 14·2	R
66	15 *Monocerotis, Var.* 2.				
Mar. 6	4·7	6 34 5·91	...	79 59 24·5	R
8	4·8	34 5·74	..	59 24·5	R
9	4·9	34 5·75	...	59 24·0	R
10	4·9	34 5·68	...	59 24·6	R
11	5·3	34 5·68	...	59 23·9	R
12	4·9	34 5·73	...	59 23·7	R
13	4·9	34 5·68	...	59 24·2	R
15	5·0	34 5·71	...	59 23·6	R
16	5·0	34 5·94	...	59 24·5	R
17	5·1	34 5·88	...	59 25·0	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension. 1875. h. m. s.	No. of Wires.	Mean Polar Distance. 1875. ° ′ ″	Observer.
67		51 *Cephei* (*Hev.*).			
Feb. 2	...	6 41 15·22	3	2 45 56·2	M
11	...	41 16·33	3	45 55·0	M
13	...	41 15·62	3	45 56·8	M
		51 *Cephei* (*Hev.*).—*s.p.*			
June 4	...	6 41 15·95	3	2 46 0·2	M
22	...	41 16·40	3	45 58·9	M
25	...	41 15·84	3	45 57·2	M
26	...	41 15 38	2	45 57·6	M
29	...	41 16·08	3	46 0·5	M
30	...	41 15·47	3	45 59·0	M
Aug. 9	...	41 16·22	3	45 57·5	M
17	...	41 15·17	3	45 59·3	M
18	...	41 15·26	3	45 58·8	M
20	...	41 15·86	3	45 59·6	M
21	...	41 15·77	3	45 58·7	M
23	...	41 15·92	3	45 57·7	M
24	...	41 16·30	3	45 59·2	M
68		*W. B. N. VI.* 1361.			
Feb. 15	9·0	6 46 5·89	...	70 34 59·0	M
16	9·0	46 5·85	...	35 1·1	M
17	9·0	46 5·85	...	35 0·9	M
18	9·0	46 5·78	...	35 1·9	M
19	9·0	46 5·91	...	34 59·7	M
69		21 *Canis Majoris* ϵ			
Feb. 9	...	6 53 42·85	...	118 48 14·1	M
10	...	53 42·73	...	48 10·3	M
11	...	53 42·80	...	48 10·6	M
12	...	53 42·80	...	48 12·0	M
13	...	53 42·77	...	48 11·5	M
16	...	53 42·80	...	48 11·8	M
17	...	53 42·73	...	48 12·4	M
18	...	53 42·64	...	48 11·9	M
19	...	53 42·83	...	48 11·8	M
24	...	53 42·76	...	48 10·9	M
26	...	53 42·86	...	48 13·0	M
27	...	53 42·86	...	48 11·2	M
Mar. 1	...	53 42·74	...	48 12·8	R
4	...	53 42·76	...	48 12·6	R
9	...	53 42·78	...	48 10·6	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
70		23 *Canis Majoris* γ			
Feb. 12	...	6 58 6·17	...	105 26 59·6	M
13	...	58 6·16	...	27 1·1	M
15	...	58 6·19	...	26 59·9	M
16	...	58 6·15	...	27 1·1	M
17	...	58 6·24	...	27 0·9	M
19	...	58 6·07	...	27 0·1	M
24	...	58 6·19	...	26 59·6	M
25	...	58 6·22	...	26 59·6	M
26	...	58 6·15	...	27 1·2	M
27	...	58 6·11	...	27 0·9	M
Mar. 1	...	58 6·24	...	27 0·5	R
3	...	58 6·22	...	26 58·8	R
5	...	58 6·14	...	26 58·8	R
8	...	58 6·23	...	27 0·8	R
71		66 *Geminorum* α^2, *Castor*.			
Feb. 15	...	7 26 37·39	...	57 50 23·2	M
17	...	26 37·41	...	50 21·9	M
18	...	26 37·46	...	50 22·6	M
20	...	26 37·28	...	50 22·7	M
22	...	26 37·37	...	50 23·6	M
23	...	26 37·31	...	50 21·8	M
24	...	26 37·41	...	50 22·9	M
25	...	26 37·53	...	50 23·0	M
26	...	26 37·36	...	50 21·9	M
27	...	26 37·40	...	50 23·1	M
Mar. 6	...	26 37·31	...	50 21·2	R
10	...	26 37·34	...	50 21·4	R
13	...	26 37·36	...	50 21·4	R
72		*R. P. L.* 45—*s.p.*			
June 30	...	7 29 0·52	2	1 0 24·5	M
July 2	...	29 1·11	2	0 22·8	R
Aug. 18	...	29 0·11	3	0 24·9	M
20	...	29 0·76	4	0 24·2	M
23	...	29 0·00	3	0 24·7	M
73		10 *Canis Minoris a, Procyon*.			
Feb. 9	...	7 32 45·46	...	84 27 23·4	M
20	...	32 45·41	...	27 22·8	M
22	...	32 45·37	...	27 22·5	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
74		78 *Geminorum* β, *Pollux.*			
Feb. 20	...	7 37 40·05	...	61 40 25·9	M
22	...	37 39·99	...	40 27·8	M
23	...	37 40·06	...	40 25·1	M
Mar. 5	...	37 39·84	...	40 24·8	R
10	...	37 39·86	...	40 25·4	R
75		*Taylor* 3290.			
Feb. 8	7·6	7 46 33·45	...	144 29 38·8	M
9	7·7	46 33·44	...	29 37·8	M
11	7·8	46 33·61	...	29 37·5	M
13	7·8	46 33·48	5	29 37·7	M
76		*R. P. L.* 49.			
Mar. 6	...	7 46 43·87	3	5 35 18·2	R
10	...	46 43·94	3	35 16·7	R
77		*Anon.*			
Mar. 2	11·5	7 47 48·91	...	67 44 26·4	R
3	11·5	47 48·73	...	44 26·4	R
78		*W. B. E.* VII. 1477.			
Feb. 18	8·8	7 51 8·56	...	77 38 11·3	M
19	8·8	51 8·63	...	38 10·6	M
26	8·9	51 8·59	...	38 10·3	M
27	8·9	51 8·60	...	38 10·9	M
Mar. 1	8·8	51 8·66	...	38 10·8	R
79		*Anon.*			
Feb. 3	9·6	7 52 19·19	6	151 42 13·6	M
80		*Anon.*			
Feb. 12	9·2	7 53 44·78	...	77 48 57·6	M
13	9·3	53 44·95	...	48 57·2	M
15	9·3	53 44·64	...	48 57·2	M
16	9·3	53 44·93	...	48 58·8	M
17	9·4	53 45·05	...	48 59·9	M
81		*Anon.*			
Feb. 20	9·3	7 53 51·89	...	149 55 27·3	M
22	9·5	53 51·95	...	55 28·2	M
23	9·4	53 52·19	...	55 25·6	M
24	9·4	53 51·92	...	55 28·8	M
25	9·4	53 52·00	...	55 29·4	M
82		*Anon.*			
Feb. 9	9·1	7 53 55·49	5	149 54 32·1	M
11	9·3	53 55·39	...	54 32·3	M
83		6 *Cancri.*			
Mar. 3	...	7 55 50·26	...	61 51 25·6	R
4	...	55 50·26	...	51 25·6	R
6	...	55 50·24	...	51 25·5	R
9	...	55 50·25	...	51 24·8	R
11	...	55 50·25	...	51 24·3	R
84		15 *Argus* ι			
Mar. 1	...	8 2 13·32	...	113 56 43·7	R
2	...	2 13·38	...	56 43·2	R
5	...	2 13·28	...	56 41·8	R
8	...	2 13·29	...	56 42·8	R
10	...	2 13·28	...	56 43·6	R
12	...	2 13·19	...	56 41·6	R
16	...	2 13·23	...	56 42·8	R
85		*Lalande* 16007.			
Feb. 11	8·0	8 4 52·42	...	78 26 48·6	M
12	8·0	4 52·42	...	26 47·8	M
13	8·0	4 52·48	...	26 48·4	M
15	8·0	4 52·21	...	26 48·3	M
16	8·0	4 52·54	...	26 48·4	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
86		*Anon.*			
Feb. 8	9·5	8 12 10·64	5	131 52 35·7	M
9	9·7	12 10·81	4	52 35·5	M
10	9·6	12 10·92	...	52 31·6	M
11	9·7	12 10·75	5	52 34·0	M
13	9·7	12 10·94	5	52 34·0	M
87		*Anon.*			
Feb. 15	9·5	8 12 18·24	4	131 44 52·1	M
16	9·6	12 18·34	...	44 50·1	M
17	9·5	12 18·19	...	44 50·6	M
18	9·5	12 18·14	...	44 50·9	M
88		*V Cancri, Var.* 5.			
Mar. 4	7·8	8 14 35·92	...	72 19 11·4	R
5	7·8	14 35·74	...	19 12·7	R
6	8·2	14 35·68	...	19 11·8	R
8	8·6	14 35·51	...	19 12·9	R
9	9·0	14 35·71	...	19 12·1	R
10	9·4	14 35·60	...	19 12·1	R
11	9·5	14 35·64	...	19 11·2	R
12	9·5	14 35·61	...	19 11·1	R
13	9·6	14 35·64	...	19 12·7	R
15	9·7	14 35·53	...	19 11·4	R
89		20 *Cancri* d^1.			
Feb. 19	6·0	8 16 12·27	5	71 16 5·9	M
90		33 *Cancri* η			
Mar. 4	...	8 25 28·73	...	69 8 6·8	R
9	...	25 28·71	...	8 6·8	R
11	...	25 28·76	...	8 6·2	R
15	...	25 28·68	...	8 6·8	R
17	...	25 28·62	...	8 7·5	R
91		*U Cancri, Var.* 4.			
Feb. 22	10·3	8 28 36·82	...	70 40 32·9	M
23	10·4	28 37·73	...	40 34·7	M
24	10·4	28 37·51	...	40 24·1	M
25	10·4	28 37·57	...	40 27·1	M
26	10·5	28 37·46	...	40 25·0	M
Mar. 2	10·0	28 36·89	...	40 31·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
92		11 *Hydræ* ϵ			
Feb. 9	...	8 40 9·33	...	83 7 26·1	M
Mar. 3	...	40 9·33	...	7 26·4	R
12	...	40 9·37	...	7 24·6	R
13	...	40 9·31	...	7 25·4	R
16	...	40 9·27	...	7 24·4	R
17	...	40 9·33	...	7 24·6	R
93		*R. P. L.* 60.			
Feb. 17	...	8 48 55·15	3	5 19 20·3	M
Mar. 3	...	48 53·75	3	19 18·7	R
		R. P. L. 60—*s.p.*			
Oct. 7	...	8 48 55·55	3	5 19 23·1	M
94		83 *Cancri.*			
Mar. 12	...	9 12 0·13	...	71 45 57·2	R
95		*R. P. L.* 69.			
Mar. 17	...	9 36 23·55	3	2 49 43·1	R
96		17 *Leonis* ϵ			
Mar. 13	...	9 38 45·20	...	65 39 3·2	R
15	...	38 45·18	...	39 3·1	R
18	...	38 45·17	...	39 4·4	R
97		*R. P. L.* 70.			
Mar. 13	...	9 48 16·23	3	5 28 54·2	R
20	...	48 16·59	3	28 52·8	R
		R. P. L. 70—*s.p.*			
Aug. 18	...	9 48 16·25	3	5 28 53·7	M
98		29 *Leonis* π			
Mar. 16	...	9 53 36·45	...	81 21 23·8	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
99		*Taylor* 4503.			
Feb. 9	8·0	10 1 33·27	...	77 23 36·4	M
10	8·0	1 33·28	...	23 34·5	M
11	8·1	1 33·46	...	23 34·7	M
12	8·0	1 33·23	...	23 35·4	M
15	8·0	1 33·24	...	23 35·4	M
100		32 *Leonis a, Regulus.*			
Mar. 17	...	10 1 42·87	...	77 25 20·7	R
20	...	1 42·81	...	25 21·3	R
29	...	1 42·85	...	25 22·0	M
101		*R. P. L.* 72.			
Feb. 19	...	10 11 9·67	3	5 6 55·5	M
		R. P. L. 72—*s.p.*			
Sep. 7	...	10 11 8·32	2	5 6 54·3	R
102		41 *Leonis* γ^1			
May 19	...	10 13 4·68	...	69 31 38·3	R
27	...	13 4·68	...	31 39·0	M
29	...	13 4·71	...	31 38·1	M
Apl. 1	...	13 4·81	...	31 37·6	M
103		30 *Sextantis.*			
Feb. 20	6·0	10 23 53·99	...	89 59 46·0	M
22	6·0	23 54·11	...	59 46·8	M
104		*Anon.*			
Feb. 23	10·5	10 23 57·46	5	76 8 38·1	M
105		47 *Leonis* ρ			
Mar. 18	...	10 26 13·73	...	80 3 0·5	R
22	...	26 13·62	...	3 0·5	R
29	...	26 13·58	...	3 2·3	M
Apl. 1	...	26 13·71	...	3 2·0	M
2	...	26 13·68	...	3 1·9	M
3	...	26 13·74	...	3 2·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
106		*Taylor* 4850—1*st.*			
Mar. 13	9·3	10 39 4·74	...	148 53 46·0	R
15	9·5	39 4·49	...	53 42·7	R
16	9·5	39 4·48	...	53 43·9	R
107		*Taylor* 4852—2*nd.*			
Mar. 17	9·2	10 39 19·01	...	148 55 19·0	R
108		53 *Leonis l.*			
Mar. 18	...	10 42 41·12	...	78 47 35·3	R
22	...	42 41·30	...	47 35·2	R
23	...	42 41·10	...	47 35·7	R
25	...	42 41·12	...	47 34·6	R
26	...	42 41·12	...	47 34·2	R
27	...	42 41·15	...	47 37·9	M
31	...	42 41·03	...	47 36·2	M
Apl. 2	...	42 41·13	...	47 37·7	M
3	...	42 41·17	...	47 37·5	M
7	...	42 41·13	...	47 37·3	M
109		63 *Leonis* χ			
Mar. 20	...	10 58 34·03	...	81 59 18·6	R
24	...	58 34·13	...	59 16·4	R
26	...	58 34·12	...	59 15·9	R
27	...	58 34·05	...	59 19·1	M
31	...	58 34·13	...	59 17·6	M
Apl. 6	...	58 34·08	...	59 18·8	M
7	...	58 34·06	...	59 17·7	M
8	...	58 34·13	...	59 17·7	M
9	...	58 34·11	...	59 18·9	M
10	...	58 34·02	...	59 18·7	M
12	...	58 34·07	...	59 17·8	M
110		68 *Leonis* δ			
Mar. 19	...	11 7 27·57	...	68 47 30·1	R
23	...	7 27·41	...	47 28·9	R
25	...	7 27·48	...	47 26·2	R
31	...	7 27·52	...	47 27·6	R
Apl. 1	...	7 27·43	...	47 29·1	M
2	...	7 27·53	...	47 30·1	M
3	...	7 27·46	...	47 30·2	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
Apl. 6	...	11 7 27·59	...	68 47 31·0	M
7	...	7 27·52	...	47 30·2	M
8	...	7 27·46	...	47 29·6	M
9	...	7 27·47	...	47 29·1	M
12	...	7 27·58	...	47 29·7	M
13	...	7 27·37	...	47 30·0	M
14	...	7 27·47	...	47 30·1	M
111		*12 Crateris δ*			
Mar. 19	...	11 13 5·52	...	104 8·1	R
24	...	13 5·58	...	6 5·9	R
26	...	13 5·47	...	6 6·8	R
Apl. 10	...	13 5·57	...	6 6·6	M
12	...	13 5·50	...	6 7·6	M
13	...	13 5·60	...	6 8·3	M
14	...	13 5·59	...	6 7·8	M
112		*Anon.*			
Feb. 24	10·5	11 27 0·50	...	151 41 24·9	M
25	10·5	27 0·69	...	41 29·1	M
113		*91 Leonis υ*			
Mar. 22	...	11 30 32·86	...	90 7 59·7	R
24	...	30 32·80	...	7 58·5	R
25	...	30 32·89	...	7 59·6	R
Apl. 5	...	30 32·93	...	8 1·5	M
6	...	30 32·80	...	8 1·3	M
8	...	30 32·90	...	7 59·8	M
9	...	30 32·90	..	7 59·3	M
15	...	30 32·92	...	7 59·6	M
16	...	30 32·81	...	8 0·6	M
17	...	30 33·00	...	8 1·1	M
114		*94 Leonis β, Deneb.*			
Mar. 20	...	11 42 41·06	...	74 43 45·3	R
23	...	42 41·06	...	43 43·2	R
Apl. 5	...	42 40·93	...	43 45·8	M
10	...	42 40·97	...	43 45·6	M
13	...	42 41·05	...	43 44·4	M
14	...	42 40·96	...	43 46·6	M
16	...	42 41·01	...	43 45·8	M
17	...	42 40·90	...	43 46·4	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
115		*R. P. L. 87—s.p.*			
Sep. 21	...	11 53 0·42	3	2 18 34·0	R
22	...	53 0·45	3	18 34·1	R
25	...	52 59·77	3	18 35·8	R
28	...	53 2·01	3	18 33·3	R
Oct. 7	...	53 1·49	3	18 33·1	M
13	...	53 1·49	2	18 36·9	M
22	...	53 0·34	2	18 36·2	M
116		*R. P. L. 89—s.p.*			
Oct. 25	...	11 58 27·52	1	3 43 13·7	M
117		*2 Corvi ε*			
Apl. 15	...	12 3 41·91	...	111 55 27·5	M
May 1	...	3 42·00	...	55 27·8	R
118		*R. P. L. 90.*			
Feb. 20	...	12 7 19·69	3	2 22 21·0	M
23	...	7 20·26	7	22 19·1	M
24	...	7 21·67	3	22 17·9	M
25	...	7 21·45	3	22 21·1	M
26	...	7 21·75	3	22 21·4	M
		R. P. L. 90—s.p.			
Oct. 23	...	12 7 20·31	3	2 22 20·6	M
Nov. 4	...	7 19·48	3	22 21·8	R
119		*T Virginis, Var.* 4.			
Mar. 18	9·6	12 8 11·85	...	95 20 29·4	R
19	9·8	8 11·93	...	20 29·2	R
20	9·8	8 11·99	...	20 29·3	R
22	10·1	8 11·90	...	20 26·7	R
23	9·9	8 12·11	...	20 26·2	R
24	9·8	8 12·12	...	20 25·6	R
25	...	8 11·79	...	20 26·1	R
26	9·8	8 11·96	...	20 25·6	R
Apl. 3	9·8	8 11·82	...	20 28·2	M
5	9·7	8 11·79	...	20 27·2	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
120		*Anon.*			
Apl. 13	8·6	12 8 37·73	...	138 27 15·5	M
14	8·6	8 37·65	...	27 16·0	M
15	8·6	8 37·62	...	27 16·5	M
16	8·7	8 37·58	...	27 17·3	M
24	8·8	8 37·55	...	27 16·9	M
121		*Anon.*			
Apl. 17	9·5	12 10 31·40	...	138 29 42·7	M
27	9·7	10 31·34	...	29 46·4	M
28	9·6	10 31·42	...	29 43·4	M
May 4	9·6	10 31·29	...	29 43·2	R
122		*Anon.*			
Mar. 24	9·0	12 11 25·37	5	138 25 34·9	R
25	...	11 25·56	...	25 37·7	R
26	9·0	11 25·54	...	25 37·5	R
123		*R. P. L.* 92.			
Apl. 9	...	12 13 12·02	3	2 52 8·1	M
23	...	13 13·00	5	52 9·1	M
May 5	...	13 13·21	3	52 8·3	R
		R. P. L. 92—*s.p.*			
Oct. 26	...	12 13 12·80	3	2 52 11·2	M
29	...	13 11·97	2	52 11·6	M
30	...	13 13·75	1	52 13·6	M
124		*R. P. L.* 93.			
Apl. 8	...	12 14 20·03	3	1 36 24·9	M
26	...	14 21·22	2	36 24·3	M
29	...	14 20·52	3	36 25·1	M
30	...	14 22·39	3	36 24·8	M
May 6	...	14 19·20	3	36 23·6	R
7	...	14 19·35	3	36 25·0	R
8	...	14 19·89	3	36 26·1	R
10	...	14 18·27	3	36 26·0	R
12	...	14 21·63	3	36 24·3	R
		R. P. L. 93—*s.p.*			
Oct. 28	...	12 14 22·33	3	1 36 26·5	M
29	...	14 21·40	3	36 25·6	M
Nov. 1	...	14 21·74	2	36 24·9	R
125		*Anon.*			
Mar. 18	9·0	12 17 55·33	...	24 46 44·1	R
19	9·0	17 55·33	...	46 44·5	R
126		*α Crucis*—2nd.			
Feb. 26	...	12 19 40·34	...	152 24 25·7	M
27	...	19 40·23	...	24 26·0	M
Mar. 22	...	19 40·15	...	24 28·0	R
23	...	19 40·05	...	24 26·0	R
24	...	19 40·17	...	24 24·7	R
127		*Anon.*			
May 13	9·5	12 25 11·77	...	151 48 34·2	R
15	9·5	25 11·53	...	48 34·6	R
128		9 *Corvi β*			
Apl. 16	...	12 27 49·31	...	112 42 22·4	M
20	...	27 49·40	...	42 18·7	M
22	...	27 49·33	...	42 17·3	M
May 4	...	27 49·35	...	42 19·0	R
129		*R. P. L.* 98—*s.p.*			
Nov. 16	...	12 48 5·97	3	5 54 10·5	R
19	...	48 6·93	3	54 6·7	R
30	...	48 8·42	3	54 7·1	R
130		*R. P. L.* 99.			
Apl. 3	...	12 48 14·02	3	5 54 26·2	M
		R. P. L. 99—*s.p.*			
Oct. 11	...	12 48 14·35	3	5 54 26·6	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
131		12 *Canum Venaticorum a*			
Apl. 15	...	12 50 10·62	...	51 0 22·1	M
17	...	50 10·59	...	0 23·8	M
19	...	50 10·79	...	0 22·4	M
20	...	50 10·74	...	0 22·0	M
21	...	50 10·75	...	0 23·2	M
22	...	50 10·69	...	0 22·2	M
23	...	50 10·71	...	0 23·2	M
24	...	50 10·72	...	0 20·7	M
26	...	50 10·69	...	0 22·8	M
27	...	50 10·57	...	0 21·7	M
28	...	50 10·74	...	0 22·1	M
29	...	50 10·64	...	0 22·1	M
30	...	50 10·74	...	0 20·8	M
132		51 *Virginis θ*			
Apl. 19	...	13 3 28·56	...	94 52 16·0	M
20	...	3 28·52	...	52 16·4	M
21	...	3 28·74	...	52 15·1	M
23	...	3 28·73	...	52 16·5	M
24	...	3 28·67	...	52 15·6	M
26	...	3 28·68	...	52 14·5	M
27	...	3 28·79	...	52 15·1	M
28	...	3 28·68	...	52 15·5	M
29	...	3 28·74	...	52 16·0	M
30	...	3 28·72	...	52 14·2	M
May 4	...	3 28·73	...	52 14·1	R
5	...	3 28·75	...	52 15·2	R
7	...	3 28·79	...	52 14·7	R
10	...	3 28·71	...	52 16·0	R
13	...	3 28·75	...	52 16·4	R
31	...	3 28·74	...	52 16·8	R
133		*R. P. L.* 101.			
Mar. 23	...	13 8 30·05	3	1 40 49·5	R
24	...	8 30·88	3	40 49·7	R
		R. P. L. 101—*s.p.*			
Dec. 8	...	13 8 28·41	3	1 40 51·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
134		67 *Virginis a, Spica.*			
Apl. 19	...	13 18 36·56	6	100 30 29.5	M
21	...	18 36·39	...	30 29·4	M
22	...	18 36·47	...	30 28·7	M
23	...	18 36·44	...	30 30·0	M
24	...	18 36·49	...	30 28·4	M
26	...	18 36·51	...	30 28·2	M
27	...	18 36·54	...	30 28·3	M
28	...	18 36·47	...	30 28·4	M
May 3	...	18 36·54	...	30 27·0	R
14	...	18 36·49	...	30 28·0	R
135		*W Virginis, Var.* 9.			
Mar. 19	9·3	13 19 35·28	...	92 43 41·4	R
20	9·5	19 35·25	...	43 40·9	R
22	9·5	19 35·12	...	43 39·3	R
23	9·5	19 35·26	...	43 39·8	R
24	9·5	19 35·25	...	43 38·7	R
25	...	19 35·38	...	43 36·9	R
26	9·6	19 35·25	...	43 38·8	R
Apl. 3	9·9	19 35·19	...	43 40·3	M
6	9·9	19 35·37	...	43 42·4	M
7	10.0	19 35·00	...	43 42·5	M
136		*R. P. L.* 103—*s.p.*			
Oct. 30	...	13 19 45·24	3	4 35 34·5	M
Nov. 1	...	19 44·14	3	35 31·6	R
2	...	19 45·35	7	35 32·4	R
3	...	19 44·78	7	35 32·5	R
137		*V Virginis, Var.* 7.			
Apl. 29	9·9	13 21 21·07	...	92 31 31·4	M
30	9·9	21 20·91	...	31 28·3	M
May 1	9·9	21 21·11	...	31 27·2	R
4	10·0	21 20·93	...	31 26·8	R
6	10·1	21 21·29	...	31 26·7	R
7	10·5	21 21·25	...	31 26·4	R
8	10·5	21 21·00	...	31 27·7	R
138		*Anon.*			
May 13	10·9	13 23 51·92	...	88 41 39·8	R
15	10·9	23 51·95	...	41 39·0	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
139		*79 Virginis ζ*			
Apl. 5	...	13 28 19·44	...	89 57 22·6	M
May 1	...	28 19·49	...	57 20·4	R
5	...	28 19·48	...	57 21·4	R
6	...	28 19·44	...	57 21·3	R
8	...	28 19·48	...	57 20·9	R
11	...	28 19·46	...	57 21·6	R
15	...	28 19·56	...	57 22·1	R
31	...	28 19·51	...	57 21·8	R
140		*Anon.*			
Mar. 19	9·0	13 36 11·98	...	137 1 45·1	R
20	9·2	36 11·97	...	1 43·9	R
22	9·5	36 11·76	...	1 41·8	R
23	9·5	36 11·78	...	1 42·2	R
24	9·4	36 11·72	...	1 43·8	R
141		*Bonn* +0°.3091.			
Apl. 10	10·4	13 36 30·77	...	89 38 19·1	M
142		*Lacaille* 5361.			
Mar. 26	7·8	13 37 43·76	...	138 9 48·4	R
27	7·9	37 43·65	5	9 49·7	M
Apl. 1	7·9	37 43·82	4	9 51·0	M
143		*Anon.*			
Apl. 3	8·5	13 39 48·56	5	138 53 30·7	M
5	8·5	39 48·59	...	53 30·0	M
6	8·4	39 48·65	...	53 29·4	M
7	8·5	39 48·32	...	53 29·0	M
144		*Anon.*			
Apl. 8	8·2	13 40 4·88	...	138 32 19·3	M
9	8·4	40 4·74	...	32 18·0	M
145		*8 Bootis η*			
Apl. 29	...	13 48 43·99	...	70 58 28·7	M
30	...	48 43·91	...	58 30·2	M
May 1	...	48 43·92	...	58 27·7	R
3	...	48 44·00	...	58 27·3	R
May 6	...	13 48 44·04	...	70 58 29·0	R
7	...	48 43·98	...	58 28·5	R
10	...	48 44·10	...	58 28·2	R
12	...	48 43·93	...	58 29·1	R
14	...	48 43·98	...	58 27·1	R
17	...	48 43·97	...	58 27·3	R
19	...	48 44·03	...	58 29·1	R
31	...	48 44·03	...	58 29·1	R
June 3	...	48 44·03	...	58 29·1	M
146		*β Centauri.*			
Mar. 22	...	13 55 0·75	...	149 46 4·9	R
23	...	55 1·00	...	46 5·7	R
Apl. 19	...	55 0·95	...	46 6·4	M
147		*93 Virginis τ*			
May 3	...	13 55 17·14	...	87 50 56·7	R
4	...	55 17·11	...	50 57·5	R
6	...	55 17·15	...	50 56·9	R
8	...	55 17·19	...	50 57·2	R
11	...	55 17·17	...	50 57·0	R
13	...	55 17·12	...	50 59·5	R
15	...	55 17·07	...	50 58·2	R
18	...	55 17·16	...	50 57·9	R
31	...	55 17·26	...	50 58·5	R
June 2	...	55 17·17	...	50 58·9	M
3	...	55 17·12	...	50 58·9	M
148		*Anon.*			
Apl. 15	9·7	14 1 8·83	...	150 54 17·9	M
149		*R. P. L.* 108.			
Apl. 6	...	14 2 29·84	3	3 38 39·5	M
		R. P. L. 108—*s.p.*			
Dec. 18	...	14 2 30·23	3	3 38 40·3	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
150		*Anon.*			
Mar. 20	9·3	14 3 7·46	...	101 48 35·8	R
22	9·5	3 7·[illegible]	...	48 35·1	R
23	9·5	3 7·40	...	48 34·8	R
24	9·5	3 7·35	...	48 33·9	R
Apl. 7	9·3	3 7·[illegible]	...	48 34·7	M
8	9·1	3 7·28	...	48 34·6	M
151		*Anon.*			
Apl. 9	10·4	14 5 23·12	...	102 9 58·1	M
13	10·4	5 23·37	...	9 58·4	M
16	10·4	5 23·13	...	9 56·2	M
19	10·5	5 23·26	...	9 57·2	M
23	10·4	5 23·28	...	9 57·5	M
24	10·4	5 23·38	...	9 57·3	M
26	10·5	5 23·34	...	9 57·9	M
27	10·4	5 23·39	...	9 56·7	M
28	10·4	5 23·37	...	9 56·1	M
152		*Anon.*			
Mar. 26	9·0	14 6 48·84	...	102 21 15·1	R
Apl. 5	9·0	6 48·91	...	21 17·0	M
153		16 *Bootis α, Arcturus.*			
May 5	...	14 9 57·60	...	70 9 56·6	R
7	...	9 57·56	...	9 56·8	R
11	...	9 57·64	...	9 57·5	R
12	...	9 57·63	...	9 57·5	R
14	...	9 57·67	...	9 55·9	R
17	...	9 57·66	...	9 56·8	R
20	...	9 57·58	...	9 56·4	R
25	...	9 57·68	...	9 58·0	R
June 2	...	9 57·57	...	9 58·5	M
8	...	9 57·56	...	9 58·2	M
154		*Anon.*			
Apl. 10	10·2	14 18 3·51	...	123 16 27·5	M
155		*S Bootis, Var.* 2.			
Mar. 24	...	14 18 41·[illegible]	3	35 37 11·1	R
26	8·0	18 41·[illegible]	...	37 10·7	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
156		*Anon.*			
Apl. 8	10·3	14 20 5·[illegible]	...	124 31 47·5	M
12	10·3	20 6·[illegible]	...	31 47·5	M
14	10·3	20 5·[illegible]	...	31 49·5	M
157		25 *Bootis ρ*			
May 18	...	14 26 26·54	...	59 4 43·7	R
19	...	26 26·58	...	4 44·2	R
22	...	26 26·55	...	4 43·5	R
26	...	26 26·59	...	4 44·0	R
31	...	26 26·50	...	4 44·7	R
June 1	...	26 26·61	...	4 44·6	M
2	...	26 26·50	...	4 45·5	M
3	...	26 26·68	...	4 44·7	M
5	...	26 26·53	...	4 43·1	M
7	...	26 26·61	...	4 43·9	M
9	...	26 26·49	...	4 44·0	M
158		*O. A. N.* 14652.			
Mar. 26	9·0	14 27 [illegible]·28	...	20 9 52·0	R
159		a^1 *Centauri.*			
Apl. 16	1·0	14 31 7·38	...	150 19 10·3	M
23	1·0	31 7·[illegible]	...	19 10·0	M
24	1·0	31 7·52	...	19 8·3	M
160		a^2 *Centauri.*			
Apl. 3	4·0	14 31 7·[illegible]	...	150 19 3·9	M
5	4·0	31 7·74	...	19 5·1	M
6	4·1	31 7·89	...	19 5·7	M
7	4·0	31 7·[illegible]	...	19 3·0	M
161		36 *Bootis ε, Mirac.*			
May 8	...	14 39 31·66	...	62 23 50·8	R
12	...	39 31·76	...	23 50·9	R
18	...	39 31·71	...	23 51·6	R
20	...	39 31·76	...	23 50·4	R
24	...	39 31·65	...	23 51·2	R
June 1	...	39 31·72	...	23 51·9	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
June 3	...	14 39 31·65	...	62 23 51·8	M
4	...	39 31·67	...	23 50·4	M
5	...	39 31·59	...	23 51·6	M
7	...	39 31·73	...	23 51·3	M
9	...	39 31·79	...	23 52·6	M
10	...	39 31·72	...	23 52·5	M
11	...	39 31·75	...	23 52·6	M
162		*9 Libræ* a^2			
May 10	...	14 43 57·82	...	105 31 17·7	R
13	...	43 57·91	...	31 15·7	R
19	...	43 57·88	...	31 15·5	R
22	...	43 57·95	...	31 15·6	R
25	...	43 58·03	...	31 17·0	R
28	...	43 57·93	...	31 16·5	R
June 5	...	43 57·98	...	31 15·0	M
7	...	43 57·85	...	31 16·2	M
8	...	43 57·82	...	31 14·6	M
9	...	43 57·90	...	31 18·3	M
10	...	43 57·87	...	31 15·1	M
11	...	43 57·82	...	31 14·3	M
163		*Anon.*			
Apl. 5	9·9	14 48 21·49	...	150 43 44·0	M
164		*43 Bootis* ψ			
May 20	...	14 59 5·37	...	62 33 49·5	R
21	...	59 5·35	...	33 49·6	R
24	...	59 5·43	...	33 49·8	R
26	...	59 5·37	...	33 49·2	R
June 5	...	59 5·35	...	33 50·4	M
7	...	59 5·40	...	33 50·6	M
8	...	59 5·38	...	33 49·9	M
12	...	59 5·37	...	33 49·4	M
165		*Anon.*			
Apl. 6	9·2	15 0 57·34	...	123 28 3·9	M
14	9·0	0 57·34	...	28 2·1	M
15	9·0	0 57·23	...	28 1·9	M
16	9·0	0 57·13	...	28 3·1	M
17	9·0	0 57·39	...	28 4·1	M
166		*Anon.*			
Apl. 23	9·4	15 1 11·~~18~~ 24	...	150 59 5·2	M
24	9·5	1 11·01	...	59 4·9	M
28	9·6	1 11·15	...	59 5·3	M
167		*Anon.*			
Apl. 7	8·7	15 1 59·~~47~~ 47	...	123 20 5·1	M
8	8·9	1 59·75	...	20 4·6	M
10	8·9	1 59·64	...	20 4·1	M
12	9·0	1 59·65	...	20 3·9	M
13	9·0	1 59·85	...	20 3·8	M
168		*R. P. L.* 111—*s.p.*			
Jan. 20	...	15 4 28·38	3	5 33 58·8	R
Nov. 27	...	4 28·50	3	33 59·1	R
Dec. 21	...	4 27·90	3	34 0·6	M
22	...	4 27·41	3	34 1·2	M
169		*Anon.*			
Apl. 8	8·7	15 7 26·15	6	130 28 59·4	M
170		*27 Libræ* β			
May 17	...	15 10 16·88	...	98 55 10·8	R
21	...	10 16·96	...	55 12·2	R
24	...	10 16·88	...	55 12·9	R
28	...	10 16·88	...	55 12·9	R
June 1	...	10 16·94	...	55 13·6	M
4	...	10 16·93	...	55 11·1	M
10	...	10 16·90	...	55 12·1	M
11	...	10 16·92	...	55 12·4	M
12	...	10 16·97	...	55 10·8	M
171		*Redhill* 2293.			
Apl. 17	...	15 13 13·71	3	4 23 40·0	M
19	...	13 ~~14·15~~ 14·16	3	23 36·6	M
21	...	13 14·06	3	23 37·9	M
30	...	13 14·00	3	23 37·7	M
May. 4	...	13 ~~15·07~~ 12·32	3	23 37·5	R
5	...	13 ~~14·22~~	3	23 37·7	R
12	...	13 14·48	3	23 38·2	R
13	...	13 14·43	3	23 38·0	R
15	...	13 14·23	3	23 38·9	R

11·29

59·67

14·86 12·97

10·98 12·32

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
172		*R. P. L.* 114.			
Apl. 13	...	15 18 15·84	3	2 17 22·6	M
17	...	18 18·27	2	17 24·9	M
24	...	18 19·78	3	17 22·7	M
May 6	...	18 15·83	3	17 24·1	R
7	...	18 16·50	3	17 23·9	R
18	...	18 18·05	3	17 23·4	R
		R. P. L. 114—*s.p.*			
Jan. 8	...	15 18 17·88	3	2 17 24·4	R
13	...	18 17·97	3	17 23·7	R
16	...	18 19·11	3	17 24·9	R
18	...	18 17·02	3	17 26·0	R
Dec. 20	...	18 20·52	2	17 25·9	M
25	...	18 19·87	1	17 26·7	M
173		31 *Libræ* ϵ			
Apl. 2	5·6	15 18 25·48	...	99 52 16·7	M
3	5·6	18 25·26	...	52 16·3	M
174		*W. B. E. XV.* 319.			
Apl. 6	9·3	15 18 47·46	...	102 25 40·4	M
7	9·1	18 47·53	...	25 38·8	M
10	9·0	18 47·66	...	25 39·8	M
175		5 *Coronæ Borealis a, Alpheta.*			
May 21	...	15 29 23·73	...	62 51 46·6	R
28	...	29 23·77	...	51 48·9	R
June 1	...	29 23·62	...	51 48·7	M
4	...	29 23·73	...	51 46·3	M
7	...	29 23·79	...	51 48·4	M
8	...	29 23·90	...	51 47·8	M
176		*Anon.*			
May 1	9·4	15 29 39·18	...	119 40 0·4	R
10	9·2	29 39·39	...	39 59·8	R
11	9·2	29 39·44	...	39 58·5	R
177		*Lalande* 28530.			
Apl. 8	9·0	15 32 13·34	5	47 27 28·5	M
10	9·0	32 13·62	...	27 28·4	M
178		*Anon.*			
May 5	9·6	15 33 0·53	...	116 38 49·6	R
6	9·7	33 0·52	...	38 49·1	R
8	9·7	33 0·54	...	38 49·8	R
12	9·8	33 0·41	...	38 50·0	R
179		*Anon.*			
Apl. 29	9·4	15 34 18·47	...	126 37 25·3	M
30	9·3	34 18·35	...	37 22·4	M
May 4	9·5	34 18·25	...	37 21·2	R
180		24 *Serpentis a*			
May 15	...	15 38 6·71	...	83 10 46·7	R
22	...	38 6·71	...	10 44·4	R
26	...	38 6·71	...	10 45·9	R
June 1	...	38 6·72	...	10 47·1	M
12	...	38 6·65	...	10 46·3	M
July 2	...	38 6·72	...	10 44·5	R
181		*O. A. S.* 14841.			
May 1	9·0	15 38 27·76	...	114 9 45·2	R
7	9·0	38 27·94	...	9 43·2	R
182		*Lacaille* 6524.			
Apl. 9	6·0	15 41 24·65	...	144 40 17·5	M
12	6·0	41 24·83	...	40 17·1	M
13	6·0	41 24·80	...	40 17·1	M
15	6·0	41 24·64	...	40 18·2	M
183		*Anon.*			
May 6	10·0	15 42 59·48	...	61 48 49·7	R
10	10·2	42 59·19	...	48 47·6	R
11	10·5	42 59·22	...	48 46·4	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
184		*O. A. S.* 14934.			
Apl. 16	9·5	15 43 27·04	...	107 54 28·2	M
17	9·7	43 27·15	...	54 28·7	M
185		*Anon.*			
Apl. 23	9·2	15 44 34·74	...	104 23 35·5	M
24	9·3	44 34·70	...	23 35·2	M
28	9·2	44 34·85	...	23 34·8	M
186		*W. B. E.* XV. 861.			
May 4	9·5	15 46 8·20	...	101 27 30·3	R
5	9·5	46 8·18	...	27 31·0	R
7	9·5	46 8·50	...	27 31·2	R
187		*Radcliffe* 3462.			
Apl. 26	8·0	15 46 42·75	...	47 3 35·6	M
30	8·0	46 43·06	...	3 35·2	M
188		*R. P. L.* 115.			
Apl. 27	...	15 46 46·35	3	4 45 54·9	M
May 19	...	46 45·26	3	45 53·6	R
20	...	46 45·10	3	45 54·3	R
21	...	46 44·97	3	45 54·5	R
22	...	46 44·07	3	45 53·2	R
24	...	46 44·78	3	45 54·2	R
26	...	46 43·90	3	45 55·1	R
28	...	46 43·76	3	45 55·6	R
June 8	...	46 45·23	3	45 54·1	M
		R. P. L. 115—*s.p.*			
Jan. 2	...	15 46 46·20	3	4 45 57·9	R
5	...	46 45·99	3	45 59·3	R
6	...	46 46·06	3	46 0·0	R
11	...	46 45·69	3	45 57·0	R
28	...	46 43·93	3	45 59·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
189		*Anon.*			
May 8	9·0	15 47 1·90	...	147 12 41·6	R
12	9·4	47 2·08	...	12 42·3	R
15	9·2	47 1·70	...	12 43·2	R
17	9·0	47 1·95	...	12 43·0	R
18	9·0	47 1·76	...	12 44·3	R
190		16 *Ursæ Minoris* ζ			
Apl. 22	...	15 48 34·52	...	11 49 18·3	M
191		4. *Herculis.*			
Apl. 19	...	15 51 18·36	...	47 4 8·9	M
192		*Anon.*			
May 5	7·2	15 51 54·48	...	143 47 12·7	R
193		*O. A. S.* 15089.			
May 1	9·0	15 52 8·16	...	105 51 44·9	R
6	9·0	52 8·09	...	51 44·6	R
7	9·0	52 8·11	...	51 44·1	R
8	9·0	52 8·09	...	51 44·8	R
194		*T Coronæ, Var.* 3.			
May 10	9·0	15 54 16·23	...	63 43 31·3	R
11	9·5	54 16·16	6	43 30·3	R
12	9·5	54 16·34	6	43 32·5	R
22	9·6	54 16·21	...	43 30·8	R
28	9·6	54 16·53	...	43 31·2	R
June 7	9·7	54 16·46	...	43 31·2	M
8	9·8	54 16·49	...	43 31·2	M
July 2	9·9	54 16·50	...	43 35·6	R
5	...	54 16·53	4	43 35·5	R
7	...	54 16·62	4	43 36·3	R
195		*O. A. S.* 15146.			
Apl. 8	8·8	15 55 24·84	...	107 30 41·4	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
196		*O. A. S.* 15148.			
May 4	9·0	15 55 27·88	...	107 49 13·8	R
17	9·0	55 27·48	...	49 13·9	R
18	9·0	55 27·38	...	49 15·4	R
197		*Anon.*			
May 26	9·0	15 55 59·47	...	126 57 33·9	R
June 11	9·0	55 59·42	...	57 33·9	M
12	8·9	55 59·35	...	57 34·4	M
22	9·0	55 59·52	...	57 33·5	M
24	8·8	55 59·38	...	57 31·0	M
198		8 *Scorpii* β^1			
June 5	...	15 58 10·35	...	109 27 40·0	M
July 1	...	58 10·24	...	27 40·2	R
10	...	58 10·26	...	27 40·8	R
14	...	58 10·20	...	27 40·5	R
20	...	58 10·46	...	27 40·2	R
199		*Anon.*			
Apl. 9	8·1	16 0 35·60	...	105 18 9·6	M
200		*R. P. L.* 116.			
Apl. 16	...	16 2 26·94	3	4 20 30·8	M
17	...	2 26·11	3	20 32·1	M
201		1 *Ophiuchi* δ			
June 25	...	16 7 47·68	...	93 22 15·9	M
26	...	7 47·70	...	22 15·0	M
July 2	...	7 47·74	...	22 15·4	R
5	...	7 47·79	...	22 14·8	R
10	...	7 47·74	...	22 14·6	R
14	...	7 47·76	...	22 14·9	R
16	...	7 47·67	...	22 14·3	R
202		*Anon.*			
May 1	9·2	16 10 22·64	...	112 35 18·1	R
203		*Anon.*			
Apl. 17	9·2	16 16 42·27	...	152 18 39·5	M
30	9·4	16 42·36	...	18 41·2	M
204		21 *Scorpii a, Antares.*			
May 25	...	16 21 44·66	...	116 9 9·6	R
June 22	...	21 44·70	...	9 8·6	M
24	...	21 44·70	...	9 7·7	M
July 5	...	21 44·66	...	9 7·0	R
7	...	21 44·69	...	9 8·2	R
205		14 *Draconis* η			
Apl. 12	...	16 22 18·58	...	28 12 6·2	M
13	...	22 18·46	...	12 7·2	M
14	...	22 18·53	...	12 6·5	M
16	...	22 18·57	...	12 7·0	M
19	...	22 18·58	...	12 8·1	M
21	...	22 18·23	...	12 7·7	M
24	...	22 18·37	...	12 6·7	M
206		30 *Herculis g, Var.* 5.			
Apl. 22	6·0	16 24 32·09	...	47 50 31·6	M
26	5·9	24 32·19	...	50 32·8	M
27	6·0	24 32·11	...	50 30·8	M
29	6·0	24 32·08	...	50 30·9	M
207		*Anon.*			
May 5	9·2	16 24 43·04	...	152 16 32·4	R
6	9·0	24 42·60	...	16 29·7	R
7	9·3	24 42·75	...	16 29·6	R
June 9	...	24 42·72	...	16 30·2	M
208		*O. A. S.* 15722.			
June 12	9·9	16 26 9·12	...	111 5 15·2	M
July 12	10·0	26 8·87	...	5 13·3	R
14	...	26 8·85	5	5 12·0	R
16	9·9	26 9·01	...	5 15·0	R
22	...	26 8·74	3	5 15·5	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
209		*Anon.*			
May 8	8·0	16 27 4·52	...	132 57 0·6	R
10	8·0	27 4·55	...	57 0·2	R
11	8·5	27 4·55	...	57 3·3	R
12	8·5	27 4·47	...	57 2·2	R
15	8·2	27 4·37	...	57 2·8	R
210		*Anon.*			
May 22	8·9	16 29 21·92	...	152 18 9·0	R
24	...	29 22·01	...	18 8·3	R
26	9·1	29 22·01	...	18 9·1	R
211		*Anon.*			
Aug. 20	7·1	16 29 ~~35·07~~ 36·01	...	133 8 34·4	M
21	7·2	29 35·92	...	8 34·9	M
23	7·3	29 35·97	...	8 34·1	M
24	7·3	29 36·04	...	8 33·5	M
25	...	29 35·75	...	8 34·3	M
212		*Anon.*			
May 28	9·2	16 29 54·82	...	130 52 45·9	R
July 30	10·0	29 54·81	...	52 45·1	R
213		*Anon.*			
June 24	9·2	16 31 28·63	...	121 28 23·9	M
25	9·3	31 28·83	...	28 23·4	M
26	9·2	31 28·93	...	28 26·3	M
29	9·3	31 28·98	...	28 27·6	M
July 5	9·2	31 28·74	...	28 25·5	R
214		*Brisbane* 5784.			
Apl. 17	9·3	16 31 52·89	...	150 40 50·7	M
May 6	9·0	31 53·02	...	40 45·9	R
215		*α Trianguli Australis.*			
Apl. 27	...	16 35 27·01	...	158 47 43·5	M
28	...	35 26·84	...	47 39·8	M
29	...	35 26·99	...	47 40·3	M
May 4	...	35 ~~26·89~~ 26·61	...	47 39·8	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
216		40 *Herculis* ζ			
May 25	...	16 36 34·34	...	58 10 11·1	R
June 2	...	36 34·42	4	10 10·7	M
22	...	36 34·42	...	10 11·0	M
July 7	...	36 34·49	...	10 10·4	R
12	...	36 34·42	...	10 10·1	R
14	...	36 34·49	...	10 9·1	R
23	...	36 34·50	...	10 9·6	R
217		*Anon.*			
May 7	9·0	16 41 2·44	...	139 5 4·5	R
8	9·0	41 2·46	...	5 3·9	R
10	9·0	41 2·62	...	5 3·2	R
11	9·0	41 2·45	...	5 2·7	R
12	9·0	41 2·44	...	5 3·6	R
218		*Anon.*			
May 15	9·0	16 41 19·79	...	138 59 17·4	R
17	9·0	41 19·98	...	59 18·0	R
18	9·0	41 19·99	...	59 19·4	R
19	9·0	41 19·99	...	59 20·0	R
20	9·0	41 19·97	...	59 16·5	R
219		*Anon.*			
Aug. 23	7·3	16 42 25·41	...	138 53 48·2	M
24	7·3	42 25·43	...	53 47·9	M
220		*Anon.*			
May 21	7·0	16 45 0·09	...	139 30 1·2	R
22	7·0	45 0·05	...	30 1·6	R
24	...	45 0·13	...	29 59·9	R
26	7·0	45 0·17	...	29 57·0	R
28	7·0	45 0·23	...	30 0·1	R
221		*S Herculis, Var.* 3.			
Apl. 19	8·0	16 46 12·60	...	74 50 48·0	M
21	8·5	46 12·44	...	50 49·2	M
23	8·9	46 12·52	...	50 44·8	M
24	9·0	46 12·51	...	50 47·2	M
27	9·0	46 12·45	...	50 47·1	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
222		*49 Herculis.*			
Apl. 22	6·8	16 46 23·28	...	74 48 53·8	M
26	6·8	46 23·10	...	48 54·0	M
223		*Anon.*			
May 10	8·5	16 47 36·67	...	130 17 34·3	R
11	8·5	47 36·87	...	17 34·1	R
12	8·5	47 36·85	...	17 35·1	R
224		*Anon.*			
May 4	9·5	16 47 ~~48·88~~ 49·11	...	131 0 46·3	R
5	9·5	47 49·09	...	0 48·7	R
6	9·5	47 ~~48·07~~ 49·22	...	0 45·9	R
225		*Taylor* 7832.			
Apl. 29	8·7	16 48 14·26	...	130 18 38·7	M
226		*Anon.*			
Apl. 28	8·0	16 48 16·14	...	121 6 13·2	M
227		*27 Ophiuchi κ*			
May 25	...	16 51 45·13	...	80 25 44·1	R
June 18	...	51 45·10	...	25 43·1	M
22	...	51 45·14	...	25 45·6	M
25	...	51 45·09	...	25 44·6	M
26	...	51 45·05	...	25 44·6	M
29	...	51 45·16	...	25 43·4	M
July 1	...	51 45·04	...	25 41·4	R
5	...	51 45·02	...	25 41·8	R
7	...	51 45·09	...	25 43·3	R
12	...	51 45·18	...	25 43·8	R
16	...	51 45·10	...	25 43·4	R
22	...	51 45·05	...	25 44·5	R
23	...	51 45·05	...	25 43·9	R
28	...	51 45·02	...	25 44·0	R
30	...	51 45·09	...	25 43·1	R
Aug. 25	...	51 45·09	...	25 44·2	M
26	...	51 45·05	...	25 44·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
228		*O. A. S.* 16232.			
May 1	10·0	16 54 36·43	...	110 15 48·1	R
229		*22 Ursæ Minoris ε—s.p.*			
Jan. 30	...	16 58 ~~40·55~~ 50·43	5	7 45 38·0	R
230		*G. Z. C.* XVII. 421.			
May 1	9·5	17 6 ~~23·03~~ 23·99	...	130 54 35·1	R
4	9·5	6 22·95	...	54 32·6	R
231		*G. Z. C.* XVII. 442.			
Apl. 29	9·3	17 6 52·92	...	130 54 52·7	M
232		*Anon.*			
Aug. 24	8·9	17 6 59·96	...	137 25 52·7	M
30	8·9	6 59·82	...	25 52·5	M
233		*64 Herculis a, Var.* 1.			
June 18	...	17 8 56·75	...	75 27 54·2	M
24	...	8 56·79	...	27 54·8	M
25	...	8 56·87	...	27 53·6	M
26	...	8 56·89	...	27 54·4	M
29	...	8 56·89	...	27 55·3	M
July 1	...	8 56·80	...	27 53·8	R
2	...	8 56·83	...	27 53·6	R
10	...	8 56·89	...	27 54·0	R
12	...	8 56·84	...	27 54·3	R
16	...	8 56·89	...	27 55·3	R
22	...	8 56·88	...	27 54·8	R
28	...	8 56·88	...	27 54·7	R
29	...	8 56·87	...	27 54·7	R
Aug. 25	...	8 56·85	4	27 54·6	M
26	...	8 56·87	...	27 54·7	M
234		*42 Ophiuchi θ*			
June 2	...	17 14 20·17	...	114 52 22·2	M
July 22	...	14 20·02	...	52 22·1	R
29	...	14 20·06	...	52 20·8	R
30	...	14 20·00	...	52 20·8	R
Aug. 21	...	14 20·11	...	52 22·2	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
235		*Anon.*			
May 22	9·0	17 22 36·46	...	131 54 39·0	R
24	9·0	22 36·31	...	54 37·5	R
26	9·0	22 36·45	...	54 37·7	R
28	9·1	22 36·55	...	54 38·5	R
236		23 *Draconis* β			
Apl. 30	...	17 27 36·84	...	37 36 17·3	M
May 17	...	27 36·52	...	36 16·2	R
19	...	27 36·44	...	36 16·7	R
237		*G. Z. C.* XVII. 1907.			
May 1	9·2	17 27 58·24	...	150 36 7·6	R
238		55 *Ophiuchi a*			
June 18	...	17 29 7·99	...	77 20 49·4	M
24	...	29 8·00	...	20 49·6	M
Aug. 3	...	29 7·98	...	20 49·0	M
27	...	29 7·80	...	20 49·7	M
239		*Anon.*			
July 5	9·0	17 30 19·59	...	117 58 5·6	R
7	9·2	30 19·39	...	58 5·5	R
12	9·5	30 19·43	...	58 5·5	R
16	8·5	30 19·65	...	58 6·9	R
22	...	30 19·49	...	58 6·8	R
23	...	30 19·45	...	58 2·3	R
28	...	30 19·34	...	58 4·5	R
29	...	30 19·40	...	58 5·4	R
30	8·8	30 19·60	...	58 5·7	R
Aug. 2	8·8	30 19·64	...	58 5·5	M
240		*Anon.*			
May 20	9·5	17 35 18·88	...	126 15 26·5	R
241		*Anon.*			
May 17	9·8	17 35 19·39	...	128 35 48·4	R

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
242		*O. A. S.* 17105.			
July 5	8·9	17 35 25·57	...	117 49 16·0	R
7	8·9	35 25·30	...	49 17·5	R
12	9·0	35 25·49	...	49 17·7	R
16	8·4	35 25·75	...	49 16·4	R
22	...	35 25·50	...	49 14·0	R
23	...	35 25·46	...	49 16·2	R
28	...	35 25·42	...	49 16·9	R
29	...	35 25·46	...	49 16·9	R
30	8·6	35 25·48	...	49 16·5	R
Aug. 2	8·0	35 25·60	...	49 18·1	M
243		*Anon.*			
May 18	9·2	17 37 2·37	...	150 36 25·9	R
244		*Anon.*			
May 19	9·5	17 37 22·53	...	150 37 28·4	R
21	9·5	37 22·65	...	37 29·8	R
22	9·5	37 22·59	...	37 27·5	R
245		*Anon.*			
May 17	10·0	17 40 1·76	...	127 17 46·9	R
20	10·0	40 1·79	...	17 46·9	R
246		86 *Herculis* μ			
June 29	...	17 41 33·91	...	62 12 17·3	M
30	...	41 33·76	...	12 15·7	M
July 20	...	41 33·97	...	12 15·9	R
23	...	41 34·01	...	12 16·9	R
29	...	41 33·97	...	12 19·5	R
Aug. 3	...	41 33·91	...	12 16·4	M
5	...	41 34·02	...	12 18·0	M
20	...	41 34·04	...	12 17·0	M
21	...	41 33·92	...	12 18·1	M
247		31 *Draconis* ψ^1—*2nd.*			
May 18	6·0	17 44 11·57	...	17 46 52·8	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
248		*Anon.*			
Aug. 23	9·0	17 45 48·49	...	128 47 54·7	M
24	9·0	45 48·63	...	47 52·5	M
249		*Anon.*			
May 18	10·0	18 4 22·45	...	59 9 47·1	R
20	10·0	4 22·49	...	9 46·9	R
250		*Anon.*			
May 24	10·2	18 5 31·15	...	120 43 30·3	R
28	10·5	5 31·21	...	43 29·4	R
July 1	10·5	5 31·16	...	43 31·5	R
251		13 *Sagittarii* μ			
June 30	...	18 6 17·31	...	111 5 21·3	M
July 20	...	6 17·19	...	5 22·1	R
28	...	6 17·24	...	5 21·9	R
30	...	6 17·17	...	5 20·5	R
Aug. 2	...	6 17·36	...	5 22·9	M
3	...	6 17·20	...	5 21·8	M
20	...	6 17·25	...	5 21·9	M
26	...	6 17·22	...	5 20·9	M
27	...	6 17·30	...	5 21·6	M
252		*Anon.*			
May 21	8·0	18 7 26·86	...	122 22 36·5	R
22	8·0	7 26·90	...	22 37·3	R
253		*Anon.*			
Sep. 7	9·5	18 8 48·80	...	122 24 31·6	R
254		24 *Ursæ Minoris.*			
June 30	...	18 17 4·46	3	3 0 46·1	M
Aug. 17	...	17 3·46	3	0 46·8	M
20	...	17 4·11	3	0 47·0	M
21	...	17 4·15	3	0 46·3	M
23	...	17 4·27	3	0 46·5	M
24	...	17 4·72	3	0 44·8	M
30	...	17 4·40	1	0 47·1	M
Sep. 22	...	16 59·95	1	0 48·3	R
		24 Ursæ Minoris—s.p.			
Feb. 11	...	18 17 4·95	2	3 0 53·2	M
13	...	17 4·10	2	0 52·9	M
255		*Anon.*			
July 7	10·5	18 30 6·46	...	136 55 0·3	R
23	...	30 6·59	3	54 56·4	R
256		3 *Lyræ a, Vega.*			
Aug. 27	...	18 32 42·37	...	51 19 52·2	M
30	...	32 42·32	4	19 53·4	M
257		10 *Lyræ* β^1, *Var.* 1.			
Aug. 2	...	18 45 28·00	...	56 46 52·8	M
5	...	45 27·89	...	46 49·2	M
10	...	45 27·74	...	46 51·4	M
258		*R. P. L.* 131.			
July 2	...	18 55 31·07	3	3 27 2·0	R
16	...	55 29·62	3	27 3·7	R
		R. P. L. 131—*s.p.*			
Feb. 2	...	18 55 29·98	3	3 27 7·3	M
Mar. 6	...	55 30·51	3	27 6·2	R
10	...	55 30·72	3	27 6·3	R
259		17 *Aquilæ* ζ			
June 30	...	18 59 39·94	...	76 19 14·1	M
Aug. 9	...	59 39·89	...	19 14·6	M
10	...	59 39·87	...	19 14·3	M
17	...	59 39·86	...	19 15·5	M
18	...	59 39·82	...	19 14·9	M
20	...	59 39·70	...	19 15·1	M
21	...	59 39·77	...	19 15·0	M
23	...	59 39·71	...	19 14·3	M
24	...	59 39·83	...	19 13·6	M
30	...	59 39·83	4	19 14·6	M
Sep. 2	...	59 39·80	...	19 13·8	R
6	...	59 39·80	...	19 13·7	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension. 1875. h. m. s.	No. of Wires.	Mean Polar Distance. 1875. ° ′ ″	Observer.
260 *R Sagittarii, Var.* 1.					
June 24	8·0	19 9 21·46	...	109 31 30·8	M
25	8·0	9 21·69	...	31 31·7	M
26	8·0	9 21·65	...	31 29·9	M
29	8·0	9 21·44	...	31 32·5	M
261 *O. A. S.* 19353.					
June 4	7·5	19 11 0·33	...	116 17 49·2	M
12	7·9	11 0·26	...	17 50·6	M
262 *O. A. S.* 19366.					
June 30	8·3	19 11 19·02	...	116 15 56·7	M
July 2	8·3	11 19·13	...	15 57·8	R
263 25 *Aquilæ ω*					
Aug. 16	...	19 11 56·73	...	78 37 41·6	M
23	...	11 56·84	...	37 43·7	M
24	...	11 56·93	...	37 42·9	M
30	...	11 56·86	...	37 43·6	M
Sep. 2	...	11 56·89	...	37 40·8	R
7	...	11 56·89	...	37 41·1	R
264 *S Sagittarii, Var.* 2.					
July 16	10·5	19 12 6·88	...	109 14 57·3	R
23	...	12 6·85	3	14 56·2	R
29	11·0	12 6·87	...	14 56·9	R
265 30 *Aquilæ δ*					
Aug. 16	...	19 19 11·82	4	87 7 57·0	M
30	...	19 11·72	...	7 56·6	M
Sep. 6	...	19 11·62	...	7 55·9	R
9	...	19 11·74	...	7 58·2	R
266 52 *Sagittarii* h^2					
Sep. 7	...	19 29 5·88	...	115 9 26·9	R
267 50 *Aquilæ γ*					
Aug. 2	...	19 40 18·94	...	79 41 24·2	M
5	...	40 19·00	...	41 23·1	M
9	...	40 18·98	...	41 25·5	M
17	...	40 18·92	...	41 24·4	M
24	...	40 18·95	...	41 22·0	M
Sep. 2	...	40 19·02	...	41 21·2	R
7	...	40 18·98	...	41 22·9	R
9	...	40 18·93	...	41 24·1	R
11	...	40 18·95	...	41 22·8	R
20	...	40 18·98	...	41 23·5	R
268 53 *Aquilæ a, Altair.*					
Aug. 10	...	19 44 41·12	...	81 27 36·6	M
16	...	44 41·05	...	27 35·8	M
Sep. 6	...	44 41·07	...	27 35·9	R
14	...	44 41·01	...	27 35·0	R
22	...	44 41·03	...	27 37·6	R
269 60 *Aquilæ β*					
Aug. 7	...	19 49 10·31	...	83 54 14·4	M
Sep. 11	...	49 10·44	...	54 12·7	R
20	...	49 10·38	...	54 13·3	R
23	...	49 10·38	...	54 11·0	R
270 *R Sagittæ, Var.* 1.					
June 29	9·1	20 8 22·18	...	73 39 3·7	M
271 *R Delphini, Var.* 2.					
Sep. 11	9·5	20 8 52·82	4	81 17 19·9	R
14	9·7	8 52·93	...	17 20·4	R
20	...	8 53·05	...	17 22·4	R
21	9·2	8 53·07	...	17 10·7	R
22	9·3	8 53·06	...	17 19·9	R
23	9·5	8 53·04	...	17 18·8	R
24	9·5	8 52·80	...	17 17·9	R
25	9·6	8 52·83	...	17 17·8	R
27	9·7	8 52·80	...	17 19·6	R
272 6 *Capricorni* a^2					
Aug. 7	...	20 11 7·06	...	102 55 52·5	M

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
273		*Anon.*			
July 16	10·5	20 16 37·90	...	106 30 35·5	R
29	...	16 37·77	...	30 35·8	R
274		24 *Cephei (Hev.)*.			
Sep. 22	...	20 19 ~~44·19~~ 48·18	2	1 14 56·2	R
28	...	19 ~~42·47~~ 49·11	3	14 56·5	R
275		11 *Capricorni* ρ			
Sep. 9	...	20 21 43·66	...	108 13 31·0	R
14	...	21 43·70	...	13 28·7	R
21	...	21 43·50	...	13 30·4	R
25	...	21 43·61	...	13 28·6	R
27	...	21 43·72	...	13 28·5	R
276		*Cordoba* XX. 865.			
July 16	8·2	20 26 13·83	...	150 24 24·9	R
29	8·4	26 14·08	...	24 20·5	R
Aug. 2	8·9	26 14·02	...	24 21·8	M
18	9·0	26 14·66	...	24 23·4	M
277		*R. P. L.* 143—*s.p.*			
Mar. 3	...	20 28 ~~9·90~~ 7·94	3	5 16 16·5	R
278		50 *Cygni a, Deneb.*			
Aug. 9	...	20 37 10·17	3	45 9 55·6	M
25	...	37 10·22	...	9 56·0	M
Oct. 7	...	37 10·35	...	9 56·8	M
279		*T Delphini, Var.* 3.			
~~May~~ 10	8·8	20 39 33·69	...	74 8 13·7	M
16	9·0	39 33·78	...	3 14·2	M
17	9·0	39 33·66	...	3 15·5	M
18	9·0	39 33·89	...	3 14·4	M
20	9·0	39 33·60	...	3 14·1	M
21	9·3	39 33·63	...	3 14·6	M
23	9·0	39 33·77	...	3 14·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
280		*Anon.*			
Sep. 11	10·4	20 39 44·93	...	74 3 10·3	R
14	10·5	39 45·17	...	3 12·1	R
21	10·5	39 45·31	...	3 11·7	R
23	10·5	39 45·22	...	3 12·1	R
281		*Anon.*			
July 16	10·5	20 41 45·52	...	105 15 56·6	R
29	...	41 45·51	...	16 0·7	R
282		32 *Vulpeculæ.*			
Sep. 14	...	20 49 13·94	...	62 25 1·0	R
21	...	49 13·95	...	25 0·9	R
23	...	49 14·01	...	24 59·9	R
25	...	49 14·04	...	24 59·9	R
29	...	49 13·98	...	25 1·6	R
Oct. 2	...	49 13·96	...	25 1·5	M
283		64 *Cygni* ζ			
Aug. 7	...	21 7 36·94	...	60 17 7·1	M
17	...	7 37·01	...	17 6·1	M
18	...	7 36·90	...	17 4·4	M
Sep. 22	...	7 36·96	...	17 5·8	R
24	...	7 36·78	...	17 5·2	R
28	...	7 36·98	...	17 5·5	R
29	...	7 36·97	...	17 6·4	R
Oct. 2	...	7 36·95	...	17 6·3	M
4	...	7 37·00	...	17 6·3	M
5	...	7 37·03	...	17 5·7	M
6	...	7 37·06	...	17 6·5	M
11	...	7 36·95	...	17 5·8	M
12	...	7 36·95	...	17 6·2	M
13	...	7 36·95	...	17 7·5	M
284		22 *Aquarii* β			
Aug. 18	...	21 24 58·60	...	96 7 13·2	M
23	...	24 58·72	...	7 9·8	M
Sep. 20	...	24 58·60	...	7 12·4	R
21	...	24 58·72	...	7 12·2	R
24	...	24 58·48	...	7 10·3	R
27	...	24 58·54	...	7 10·6	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
Oct. 1	...	21 24 58·62	...	96 7 11·9	M
2	...	24 58·59	...	7 12·8	M
4	...	24 58·66	...	7 12·2	M
5	...	24 58·54	...	7 11·9	M
6	...	24 58·52	3	7 12·5	M
7	...	24 58·55	...	7 11·3	M
11	...	24 58·60	...	7 11·8	M
12	...	24 58·67	...	7 12·0	M
13	...	24 58·61	...	7 11·7	M
16	...	24 58·69	...	7 11·8	M
285		8 *Pegasi* ε			
Sep. 11	...	21 38 2·80	...	80 41 47·9	R
22	...	38 2·81	...	41 49·2	R
28	...	38 2·84	...	41 50·0	R
Oct 4	...	38 2·68	...	41 49·3	M
6	...	38 2·71	...	41 50·4	M
7	...	38 2·71	...	41 49·6	M
12	...	38 2·72	...	41 51·3	M
16	...	38 2·74	...	41 50·1	M
19	...	38 2·75	...	41 49·4	M
286		*Anon.*			
Sep. 21	10·0	21 41 24·31	...	102 29 23·6	R
287		16 *Pegasi.*			
Sep. 23	...	21 47 22·45	...	64 39 43·1	R
28	...	47 22·56	...	39 44·1	R
Oct. 1	...	47 22·43	...	39 45·5	M
5	...	47 22·50	...	39 45·1	M
6	...	47 22·54	3	39 44·2	M
11	...	47 22·52	...	39 44·1	M
16	...	47 22·50	...	39 44·0	M
22	...	47 22·49	...	39 43·6	M
288		34 *Aquarii a*			
Sep. 24	...	21 59 21·69	...	90 55 34·0	R
Oct. 19	...	59 21·75	...	55 34·6	M
22	...	59 21·70	...	55 35·1	M
23	...	59 21·74	...	55 35·0	M
26	...	59 21·64	...	55 34·8	M
Nov. 1	...	59 21·66	...	55 35·3	R

Number and Date.	Magnitude.	Mean Right Ascension. 1875. h. m. s.	No. of Wires.	Mean Polar Distance. 1875. ° ′ ″	Observer.
289		*T Pegasi, Var.* 4.			
Nov. 3	10·5	22 2 47·44	...	78 4 17·1	R
4	10·5	2 47·42	...	4 15·9	R
5	10·5	2 47·51	...	4 15·4	R
6	10·5	2 47·59	4	4 14·2	R
8	10·5	2 47·68	2	4 14·8	R
290		*Anon.*			
Sep. 7	9·5	22 3 54·96	...	101 5 38·5	R
291		43 *Aquarii θ*			
Sep. 25	...	22 10 14·10	...	98 24 14·5	R
27	...	10 14·11	...	24 15·6	R
Oct. 1	...	10 14·18	...	24 16·4	M
19	...	10 14·17	...	24 16·4	M
22	...	10 14·20	...	24 16·6	M
23	...	10 14·20	...	24 16·7	M
25	...	10 14·14	...	24 17·4	M
27	...	10 14·06	...	24 16·5	M
28	...	10 14·16	...	24 16·0	M
29	...	10 14·21	...	24 15·9	M
Nov. 1	...	10 14·15	...	24 16·3	R
292		*R. P. L.* 150.			
Sep. 7	...	22 22 55·62	3	4 31 19·5	R
11	...	22 55·79	3	31 19·0	R
21	...	22 56·01	3	31 20·1	R
		R. P. L. 150—*s.p.*			
Feb. 17	...	22 22 57·66	3	4 31 24·0	M
19	...	22 57·61	3	31 21·0	M
Mar. 13	...	22 57·22	3	31 23·8	R
293		*R. P. L.* 151.			
Aug. 18	...	22 23 25·33	3	4 24 26·8	M
Sep. 16	...	23 22·49	3	24 27·6	R
		R. P. L. 151—*s.p.*			
Mar. 17	...	22 23 23·72	3	4 24 29·1	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
294		*R. P. L.* 153—*s.p.*			
Feb. 24	...	22 28 2·73	3	2 33 18·8	M
25	...	28 2·34	3	33 15·0	M
26	...	28 2·57	3	33 14·4	M
295		62 *Aquarii* η			
Oct. 23	...	22 28 55·79	...	90 45 39·0	M
25	...	28 55·93	...	45 40·0	M
26	...	28 56·06	...	45 39·3	M
28	...	28 55·93	...	45 38·6	M
29	...	28 55·92	...	45 38·1	M
30	...	28 55·94	...	45 37·9	M
296		*T Aquarii, Var.* 3.			
Nov. 4	10·5	22 29 19·52	...	98 15 6·4	R
5	10·5	29 19·64	5	15 5·8	R
6	10·5	29 19·62	3	15 6·2	R
8	10·5	29 19·99	1	15 5·8	R
297		42 *Pegasi* ζ			
Oct. 13	...	22 35 13·58	...	79 49 14·3	M
26	...	35 13·50	...	49 13·7	M
27	...	35 13·61	...	49 13·3	M
28	...	35 13·61	...	49 13·5	M
29	...	35 13·49	...	49 14·2	M
30	...	35 13·58	...	49 13·3	M
Nov. 1	...	35 13·68	...	49 13·9	R
2	...	35 13·64	...	49 11·6	R
3	...	35 13·64	...	49 13·2	R
5	...	35 13·65	...	49 11·9	R
11	...	35 13·52	...	49 12·7	R
298		*Anon.*			
Nov. 19	7·0	22 46 24·34	4	130 5 2·9	R
23	7·2	46 24·21	...	5 3·3	R
25	7·2	46 24·22	...	5 2·0	R
299		24 *Piscis Australis* α, *Fomalhaut.*			
Oct. 25	...	22 50 44·26	...	120 17 3·9	M
27	...	50 44·39	...	17 2·5	M
30	...	50 44·34	...	17 3·5	M
Nov. 4	...	50 44·30	...	17 4·5	R
6	...	50 44·46	...	17 4·3	R

Number and Date.	Magnitude.	Mean Right Ascension. 1875. h. m. s.	No. of Wires.	Mean Pclar Distance. 1875. ° ′ ″	Observer.
300		54 *Pegasi* α, *Markab.*			
Sep. 29	...	22 58 32·05	...	75 28 1·8	R
Nov. 3	...	58 32·02	...	28 0·7	R
5	...	58 32·09	...	27 59·3	R
15	...	58 32·06	...	27 59·6	R
17	...	58 32·09	...	27 59·5	R
301		6 *Piscium* γ			
Nov. 2	...	23 10 41·01	...	87 23 58·8	R
4	...	10 41·09	...	23 59·3	R
5	...	10 40·99	...	23 59·0	R
6	...	10 41·04	...	24 0·3	R
8	...	10 41·07	...	23 59·1	R
9	...	10 41·12	...	23 59·4	R
15	...	10 41·08	...	23 59·1	R
19	...	10 41·01	...	23 59·3	R
302		*W. B. E.* XXIII. 190.			
Oct. 7	9·0	23 11 10·85	...	82 28 10·0	M
11	9·0	11 10·96	...	28 9·3	M
12	9·3	11 10·83	...	28 10·3	M
22	9·1	11 10·89	...	28 8·9	M
23	9·0	11 10·77	...	28 10·1	M
303		*Lalande* 45607.			
Sep. 23	7·8	23 11 40·80	...	81 10 40·8	R
24	8·0	11 40·63	...	10 39·4	R
25	8·0	11 40·72	...	10 40·6	R
28	8·0	11 40·89	...	10 41·8	R
29	...	11 40·98	...	10 42·6	R
304		8 *Piscium* κ			
Oct. 14	...	23 20 31·43	...	89 25 43·5	M
Nov. 2	...	20 31·44	...	25 41·0	R
6	...	20 31·28	...	25 41·6	R
8	...	20 31·48	...	25 40·7	R
15	...	20 31·43	...	25 41·8	R
17	...	20 31·41	...	25 42·0	R
23	...	20 31·53	...	25 43·2	R
25	...	20 31·48	...	25 42·8	R

Separate Results of Madras Meridian Circle Observations in 1875.

Number and Date.	Magnitude.	Mean Right Ascension 1875. h. m. s.	No. of Wires.	Mean Polar Distance 1875. ° ′ ″	Observer.
305		*W. B. E.* XXIII. 424.			
Sep. 14	9·5	23 22 21·46	...	78 44 33·4	R
21	9·5	22 21·59	...	44 34·5	R
24	9·8	22 21·30	...	44 32·4	R
25	9·5	22 21·33	...	44 31·7	R
28	9·4	22 21·53	...	44 31·6	R
306		*R. P. L.* 158.			
Sep. 25	...	23 27 48·67	3	3 22 55·0	R
Oct. 28	...	27 49·87	3	22 55·8	M
29	...	27 48·58	3	22 54·1	M
30	...	27 48·99	3	22 54·6	M
		R. P. L. 158—*s.p.*			
Feb. 20	...	23 27 49·25	5	3 22 58·5	M
23	...	27 49·64	5	22 58·7	M
307		17 *Piscium* ι			
Oct. 14	...	23 33 31·06	...	85 3 4·5	M
Nov. 3	...	33 31·28	...	3 1·7	R
4	...	33 31·22	...	3 1·6	R
Nov. 8	...	23 33 31·20	...	85 3 3·0	R
9	...	33 31·21	...	3 3·6	R
16	...	33 31·29	...	3 4·4	R
17	...	33 31·34	...	3 3·2	R
19	...	33 31·21	...	3 3·3	R
23	...	33 31·19	...	3 2·8	R
308		δ *Sculptoris.*			
Nov. 9	...	23 42 24·56	...	118 49 15·7	R
11	...	42 24·51	...	49 16·1	R
19	...	42 24·78	...	49 18·4	R
25	...	42 24·61	...	49 16·7	R
27	...	42 24·71	...	49 18·2	R
309		*G. C. Z.* XXIII. 1321.			
Sep. 11	9·3	23 48 31·74	...	150 39 57·5	R
310		28 *Piscium* ω			
Nov. 11	...	23 52 53·49	...	83 49 39·5	R
16	...	52 53·55	...	49 43·0	R
25	...	52 53·58	...	49 42·0	R

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1875

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1875, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension, h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
1	21 Andromedæ α (*Alpherat*)	2·1	...	0	1	55·91	61	36	0·2	1	0·89
2	W. B. E. 0·28	7·9	5	0	3	39·24	99	40	12·6	5	0·72
3	W. B. E. 0·41	9·2	5	0	4	5·631	99	59	9·7	5	0·76
4	W. B. E. 0·76	9·1	5	0	5	58·63	99	24	18·8	5	0·79
5	88 Pegasi γ (*Algenib*) ...	3·0	...	0	6	47·99	75	30	42·6	2	0·91
6	T Cassiopeiæ, Var. 5 ...	8·4	10	0	16	28·48	34	54	2·7	10	0·86
7	S Ceti, Var. 3.	9·4	10	0	17	41·954	100	1	15·8	10	0·73
8	12 Ceti	6·2	...	0	23	39·48	94	38	53·5	1	0·87
9	T Piscium, Var. 3 ...	10·5	6	0	25	31·812	76	5	23·2	6	0·87
10	... ...	10·5	2	0	25	56·64	76	5	35·2	2	0·79
11	16 Ceti β	2·1	...	0	37	18·896	108	40	22·8	3	0·90
12	R. P. L. 10	6·6	...	0	49	36·60	1	38	52·4	1	0·84
13	2 Ursæ Minoris	4·5	...	0	52	0·69	4	24	52·7	8	0·84
14	R. P. L. 14	6·2	...	0	55	27·56	3	31	15·6	5	0·62
15	71 Piscium ε	4·5	...	0	56	27·42	82	46	59·7	3	0·90
16	R. P. L. 18	7·9	...	1	11	39·45	2	5	22·2	8	0·74
17	1 Ursæ Minoris α (*Polaris*).	2·2	...	1	13	0·00	1	21	29·9	2	0·27
18	45 Ceti θ^1	3·8	...	1	17	46·51	98	49	44·1	6	0·92
19	99 Piscium η	3·7	..	1	24	47·74	75	17	58·3	6	0·93
20	106 Piscium ν	4·7	...	1	34	55·55	85	8	43·4	4	0·93
21	6 Arietis β	2·8	...	1	47	44·178	69	48	13·6	6	0·95
22	13 Arietis α	2·0	...	2	0	7·70	67	7	46·8	5	0·94
23	67 Ceti	5·5	...	2	10	44·90	96	59	56·6	5	0·76
24	73 Ceti ξ^2	4·4	...	2	21	30·84	82	6	3·6	5	0·56
25	R. P. L. 26	8·0	...	2	25	21·66	3	30	0·1	14	0·43
26	Lacaille 849—1st... ...	8·1	2	2	36	18·11	150	6	18·3	2	0·81
27	86 Ceti γ^2...	3·6	...	2	36	49·47	87	17	29·8	6	0·33
28	T Arietis, Var. 3... ...	8·2	10	2	41	21·49	73	0	49·5	10	0·83
29	... ...	10·0	5	2	46	10·63	150	9	36·5	5	0·04
30	92 Ceti α (*Menkar*) ...	2·7	...	2	55	44·73	86	24	5·1	8	0·26
31	R. P. L. 33	5·8	...	3	3	3·85	5	32	18·0	8	0·33
32	57 Arietis δ	4·5	...	3	4	29·03	70	44	51·8	5	0·03
33	... ...	10·3	2	3	13	13·64	131	44	20·7	2	0·01
34	R. P. L. 34	5·9	...	3	25	44·88	3	45	8·1	13	0·28
35	25 Tauri η (*Alcyone*) ...	3·0	...	3	40	3·35	66	16	59·5	12	0·12

2—3—4.—Comparison stars for Sylvia in 1875.
10.—Observed for map T Piscium, Var. 3.
12.—Groombridge 144.
14.—Groombridge 195.
16.—Carrington 183.
25.—Groombridge 352.
31.—Groombridge 595.
34.—Groombridge 642.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
1	21 Andromedæ α ...	+ 3·0783	+ 0·0182	+ 0·010	− 20·054	+ 0·013	+ 0·16	3215
2	W. B. E. 0·28 ...	+ 3·0685	− 0·0030	...	− 20·051	+ 0·016	...	...
3	W. B. E. 0·41 ...	+ 3·0680	− 0·0032	...	− 20·051	+ 0·016	...	...
4	W. B. E. 0·76 ...	+ 3·0665	− 0·0028	...	− 20·048	+ 0·020	...	...
5	88 Pegasi γ (*Algenib*)	+ 3·0824	+ 0·0100	− 0·001	− 20·046	+ 0·022	+ 0·01	1
6	T Cassiopeiæ, Var. 5.	+ 3·2098	+ 0·0491	...	− 20·003	+ 0·042	...	...
7	S Ceti, Var. 3 ...	+ 3·0539	− 0·0023	...	− 19·995	+ 0·043	...	...
8	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·948	+ 0·055	+ 0·01	38
9	T Piscium, Var. 3 ...	+ 3·1091	+ 0·0108	...	− 19·930	+ 0·058	...	...
10	... ...	+ 3·1097	+ 0·0108	...	− 19·926	+ 0·060	...	...
11	16 Ceti β	+ 2·9990	− 0·0055	+ 0·015	− 19·789	+ 0·080	− 0·03	70
12	R. P. L. 10	+ 13·0564	+ 7·6087	+ 0·116	− 19·586	+ 0·418	+ 0·02	Main
13	2 Ursæ Minoris ...	+ 6·9688	+ 1·3334	+ 0·068	− 19·540	+ 0·238	+ 0·01	92
14	R. P. L. 14	+ 8·2789	+ 2·0702	+ 0·054	− 19·469	+ 0·297	+ 0·02	95
15	71 Piscium ϵ ...	+ 3·1135	+ 0·0087	− 0·007	− 19·449	+ 0·119	− 0·04	113
16	R. P. L. 18	+ 14·3417	+ 6·4938	...	− 19·082	+ 0·651	...	...
17	1 Ursæ Minoris α ...	+ 20·7403	+ 14·9675	+ 0·108	− 19·046	+ 0·955	+ 0·00	102
18	45 Ceti θ^1	+ 3·0031	+ 0·0018	− 0·007	− 18·911	+ 0·154	+ 0·20	184
19	99 Piscium η ...	+ 3·1990	+ 0·0141	− 0·000	− 18·697	+ 0·177	+ 0·00	203
20	106 Piscium ν ...	+ 3·1179	+ 0·0091	− 0·003	− 18·359	+ 0·191	− 0·01	228
21	6 Arietis β	+ 3·2950	+ 0·0183	+ 0·005	− 17·879	+ 0·226	+ 0·10	252
22	13 Arietis α	+ 3·3545	+ 0·0203	+ 0·013	− 17·362	+ 0·252	+ 0·13	287
23	67 Ceti	+ 2·9836	+ 0·0049	+ 0·004	− 16·878	+ 0·242	+ 0·11	321
24	73 Ceti ξ^2	+ 3·1796	+ 0·0117	+ 0·001	− 16·352	+ 0·276	+ 0·00	347
25	R. P. L. 26	+ 16·0251	+ 3·7143	...	− 16·154	+ 1·303	...	...
26	Lacaille 849—1st ...	+ 1·6064	+ 0·0071	...	− 15·568	+ 0·154	...	...
27	86 Ceti γ^2	+ 3·1122	+ 0·0094	− 0·011	− 15·540	+ 0·294	+ 0·16	383
28	T Arietis, Var. 3 ...	+ 3·3366	+ 0·0164	...	− 15·286	+ 0·322	...	...
29	... ...	+ 1·5265	+ 0·0093	...	− 15·010	+ 0·154	...	...
30	92 Ceti α (*Menkar*)...	+ 3·1305	+ 0·0098	− 0·003	− 14·441	+ 0·323	+ 0·07	428
31	R. P. L. 33	+ 12·9490	+ 1·6017	+ 0·045	− 13·990	+ 1·357	+ 0·12	402
32	57 Arietis δ	+ 3·4088	+ 0·0171	+ 0·010	− 13·900	+ 0·364	− 0·01	446
33	... ...	+ 2·1815	+ 0·0013	...	− 13·336	+ 0·243	...	...
34	R. P. L. 34	+ 19·0118	+ 3·2330	+ 0·136	− 12.501	+ 2·173	+ 0·06	Gr.
35	25 Tauri η (*Alcyone*)	+ 3·5534	+ 0·0177	− 0·000	− 11·499	+ 0·430	+ 0·04	521

12.—Proper motions from Main's list.

34.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1875, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	34 Eridani γ^1	3·0	...	3	52	11·88	103	51	55·5	9	0·15
37	R. P. L. 35	6·7	...	3	57	58·03	4	46	40·7	6	0·23
38	Lalande 7655	8·0	3	4	1	4·57	70	35	53·3	3	0·97
39	... ...	10·0	4	4	3	6·3924	67	14	27·2	4	0·08
40	... ...	10·0	2	4	4	2·56·61	68	28	28·1	2	0·88
41	T Tauri, Var. 4 ...	10·9	3	4	4	27·62	60	30	55·2	3	0·02
42	... ...	10·0	5	4	5	12·757	67	14	46·6	5	0·73
43	... ...	9·9	5	4	5	38·84	67	13	57·9	5	0·09
44	38 Eridani o^1	4·1	...	4	5	45·81	97	9	52·5	2	0·05
45	U Tauri, Var. 7	9·7	1	4	14	32·09	70	29	0·0	1	0·09
46	74 Tauri ϵ	3·7	...	4	21	19·09	71	5	55·2	7	0·07
47	... ...	9·6	5	4	22	19·367	70	38	8·8	5	0·92
48	... ...	10·1	2	4	22	38·44	80	26	33·3	2	0·01
49	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	44·97	73	44	38·5	4	0·07
50	V Tauri, Var. 8	9·9	10	4	44	48·49	72	40	35·1	10	0·04
51	3 Aurigæ ι	2·7	...	4	48	51·35	57	2	2·7	8	0·08
52	2 Leporis ϵ	3·3	...	5	0	10·12	112	32	25·6	7	0·08
53	112 Tauri β	1·9	...	5	18	23·44	61	30	2·2	7	0·09
54	R. P. L. 40	6·0	...	5	22	8·52	4	52	27·5	4	0·38
55	34 Orionis δ, Var. 1 ...	Var.	...	5	25	37·20	90	23	36·5	3	0·10
56	46 Orionis ϵ	1·8	...	5	29	52·15	91	17	1·0	1	0·09
57	R. P. L. 42	7·9	...	5	32	27·26	2	41	12·0	5	0·44
58	58 Orionis α, Var. 2 ...	0·9	...	5	48	24·44·30	82	37	5·4	2	0·09
59	... ...	9·1	4	5	51	26·96	141	51	52·4	4	0·06
60	R. P. L. 43	6·6	...	5	56	53·96	3	14	18·4	3	0·40
61	67 Orionis ν	4·4	...	6	0	26·17	75	13	5·5	1	0·11
62	Lalande 12072	7·5	2	6	13	46·23	68	48	53·0	2	0·04
63	13 Geminorum μ ...	3·2	...	6	15	23·88	67	25	28·3	2	0·14
64	24 Geminorum γ ...	2·0	...	6	30	29·46	73	29	46·2	8	0·12
65	R Monocerotis, Var. 1 ...	...	...	6	32	20·298	81	9	12·9	4	0·17
66	15 Monocerotis, Var. 2 ...	5·0	10	6	34	5·77	79	59	24·3	10	0·19
67	51 Cephei (Hev.)	...	...	6	41	15·7799	2	45	58·3	16	0·47
68	W. B. N VI. 1361 ...	9·0	5	6	46	5·854	70	35	0·5	5	0·13
69	21 Canis Majoris ϵ ...	1·5	...	6	53	42·78	118	48	11·8	15	0·14
70	23 Canis Majoris γ ...	4·1	...	6	58	6·18	105	27	0·2	14	0·15

37.—Groombridge 750.
38—47.—Comparison stars for Sylvia in 1875.
48.—Observed for map of R Tauri, Var. 2.
54.—Groombridge 944.
60.—Groombridge 1004.
62.—Observed for map of R Reticuli, Var. 1.
68.—Comparison star for Hestia in 1875.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
36	34 Eridani γ^1 ...	+ 2·7922	+ 0·0047	+ 0·003	− 10·613	+ 0·351	+ 0·11	546
37	R. P. L. 35 ...	+ 16·8528	+ 1·8103	+ 0·057	− 10·181	+ 2·121	− 0·05	Gr.
38	Lalande 7655 ...	+ 3·4811	+ 0·0139	...	− 9·946	+ 0·445	...	...
39	... ...	+ 3·5617	+ 0·0153	...	− 9·792	+ 0·457	...	...
40	... ...	+ 3·5335	+ 0·0147	...	− 9·719	+ 0·454	...	...
41	T Tauri, Var. 4 ...	+ 3·5332	+ 0·0146	...	− 9·687	+ 0·455	...	...
42	... ...	+ 3·5641	+ 0·0151	...	− 9·629	+ 0·460	...	...
43	... ...	+ 3·5649	+ 0·0151	...	− 9·597	+ 0·460	...	...
44	38 Eridani o^1 ...	+ 2·9246	+ 0·0058	− 0·001	− 9·587	+ 0·379	− 0·09	568
45	U Tauri, Var. 7 ...	+ 3·4969	+ 0·0129	...	− 8·906	+ 0·460	...	...
46	74 Tauri, ϵ ..	+ 3·4882	+ 0·0120	+ 0·007	− 8·371	+ 0·466	+ 0·47	609
47	... ...	+ 3·5000	+ 0·0122	...	− 8·291	+ 0·469	...	...
48	... ...	+ 3·2773	+ 0·0090	...	− 8·266	+ 0·439	...	...
49	87 Tauri α (*Aldebaran*)	+ 3·4315	+ 0·0105	+ 0·004	− 7·776	+ 0·464	+ 0·18	630
50	V Tauri, Var. 8 ...	+ 3·4670	+ 0·0095	...	− 6·462	+ 0·482	...	...
51	3 Aurigæ ι ...	+ 3·8978	+ 0·0144	+ 0·001	− 6·126	+ 0·544	+ 0·00	677
52	2 Leporis ϵ ...	+ 2·5361	+ 0·0033	+ 0·000	− 5·176	+ 0·359	+ 0·07	713
53	112 Tauri β ...	+ 3·7862	+ 0·0082	+ 0·001	− 3·621	+ 0·545	+ 0·18	756
54	R. P. L. 40 ...	+ 18·5393	+ 0·6349	...	− 3·297	+ 2·669	...	...
55	34 Orionis δ, Var. 1...	+ 3·0631	+ 0·0038	− 0·001	− 2·997	+ 0·443	+ 0·01	787
56	46 Orionis ϵ ...	+ 3·0425	+ 0·0035	− 0·002	− 2·629	+ 0·441	− 0·01	809
57	R. P. L. 42 ...	+ 31·3575	+ 1·4732	...	− 2·405	+ 4·543	...	...
58	58 Orionis α, Var. 2...	+ 3·2452	+ 0·0027	+ 0·001	− 1·014	+ 0·473	− 0·02	860
59	... ...	+ 1·3704	+ 0·0033	...	− 0·749	+ 0·200	...	...
60	R. P. L. 43 ...	+ 26·7096	+ 0·1087	...	− 0·271	+ 3·895	...	...
61	67 Orionis ν ...	+ 3·4250	+ 0·0017	− 0·000	+ 0·038	+ 0·500	+ 0·01	887
62	Lalande 12072 ...	+ 3·5895	0·0000	...	+ 1·204	+ 0·522	...	...
63	13 Geminorum μ ...	+ 3·6268	− 0·0003	+ 0·004	+ 1·346	+ 0·527	+ 0·10	929
64	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·660	+ 0·500	+ 0·04	969
65	R Monocerotis, Var. 1	+ 3·2782	− 0·0007	...	+ 2·821	+ 0·473	...	...
66	15 Monocerotis, Var. 2	+ 3·3056	− 0·0010	...	+ 2·973	+ 0·476	...	...
67	51 Cephei (Hev.) ...	+ 30·3010	− 2·0844	− 0·040	+ 3·592	+ 4·347	+ 0·05	Gr.
68	W. B. N. VI. 1361 ...	+ 3·5340	− 0·0036	...	+ 4·007	+ 0·503	...	...
69	21 Canis Majoris ϵ ...	+ 2·3572	+ 0·0013	− 1·001	+ 4·657	+ 0·332	− 0·02	1023
70	23 Canis Majoris γ ..	+ 2·7145	+ 0·0005	− 0·002	+ 5·030	+ 0·381	+ 0·00	1028

37—68.—Proper motions from *Greenwich Catalogue* 1872.
67.—Proper motions from *Greenwich Catalogue* 1880.

Mean Positions of Stars for 1875, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	66 Geminorum a^2 (*Castor*).	2·0	...	7	26	37·38	57	50	22·3	13	0·15
72	R. P. L. 45	7·2	...	7	29	1·08	1	0	24·2	5	0·58
73	10 Can. Min. α (*Procyon*)..	0·5	...	7	32	45·42	84	27	22·3	9	0·16
74	78 Geminorum β (*Pollux*).	1·1	...	7	37	39·96	61	40	25·8	5	0·16
75	Taylor 3290	7·7	4	7	46	33·50	144	29	38·0	4	0·11
76	R. P. L. 49	6·7	...	7	46	43·91	5	35	17·5	2	0·18
77	... ...	11·5	2	7	47	48·824	67	44	26·4	2	0·17
78	W. B. E. VII. 1477. ...	8·8	5	7	51	8·61	77	38	10·8	5	0·15
79	... ...	9·6	1	7	52	19·19	151	42	13·6	1	0·09
80	... ...	9·3	5	7	53	44·87	77	48	58·1	5	0·12
81	... ...	9·4	5	7	53	51·99	149	55	27·9	5	0·14
82	... ...	9·2	2	7	53	55·44	149	54	32·2	2	0·11
83	6 Cancri	5·0	...	7	55	50·256	61	51	25·2	5	0·18
84	15 Argus ι	2·9	...	8	2	13·28	113	56	42·8	7	0·18
85	Lalande 16007	8·0	5	8	4	52·41	78	26	48·3	5	0·12
86	... ...	9·6	5	8	12	10·81	131	52	34·2	5	0·11
87	... ...	9·5	4	8	12	18·234	131	44	50·9	4	0·13
88	V Cancri, Var. 5	8·9	10	8	14	35·66	72	19	11·9	10	0·18
89	20 Cancri d^1	5·9	...	8	16	12·274	71	16	5·9	1	0·14
90	33 Cancri η	5·5	...	8	25	28·70	69	8	6·8	5	0·19
91	U Cancri, Var. 4	10·4	6	8	28	37·33	70	40	29·2	6	0·15
92	11 Hydræ ϵ	3·6	...	8	40	9·33	83	7	25·3	6	0·18
93	R. P. L. 60	7·0	...	8	48	55·13	5	19	20·7	3	0·35
94	83 Cancri	6·6	...	9	12	0·13	71	45	57·2	1	0·19
95	R. P. L. 69	7·9	1	9	36	23·55	2	49	43·1	1	0·21
96	17 Leonis ϵ	3·1	...	9	38	45·18	65	39	3·6	3	0·20
97	R. P. L. 70	5·0	...	9	48	16·86·63	5	28	53·6	3	0·35
98	29 Leonis π	5·0	...	9	53	36·45	81	21	23·8	1	0·20
99	Taylor 4503	8·0	5	10	1	33·30	77	23	35·3	5	0·11
100	32 Leonis α (*Regulus*) ...	1·4	...	10	1	42·84	77	25	21·3	3	0·22
101	R. P. L. 72	6·0	...	10	11	8·47 9·90	5	6	54·9	2	0·41
102	41 Leonis γ^1	2·5	...	10	13	4·742	69	31	38·3	4	0·23
103	30 Sextantis	4·9	...	10	23	54·05	89	59	46·4	2	0·14
104	... ...	10·5	1	10	23	57·46	76	8	38·1	1	0·15
105	47 Leonis ρ	4·0	...	10	26	13·679	80	3	1·6	6	0·23

72.—Groombridge 1119.
76.—Groombridge 1359.
78—80—85.—Comparison stars for Asia in 1875.
93.—Carrington 1286.
95.—Carrington 1418.
97.—Carrington 1451.
101.—Groombridge 1620.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
71	66 Geminorum a^2 ...	+ 3·8535	− 0·0133	− 0·015	+ 7·401	+ 0·519	+ 0·08	1087
72	R. P. L. 45	+ 73·4879	− 30·2397	− 0·323	+ 7·595	+ 0·990	− 0·01	Main
73	10 Canis Minoris α ...	+ 3·1915	− 0·0041	− 0·047	+ 7·897	+ 0·425	+ 1·03	1106
74	78 Geminorum β ...	+ 3·7284	− 0·0128	− 0·048	+ 8·290	+ 0·491	+ 0·05	1112
75	Taylor 3290	+ 1·3975	− 0·0043	...	+ 8·992	+ 0·178	...	...
76	R. P. L. 49	+ 15·2730	+ 1·2348	...	+ 9·005	+ 1·986		
77	... ...	+ 3·5599	− 0·0108	...	+ 9·090	+ 0·459	...	...
78	W. B. E. VII. 1477 ...	+ 3·3315	− 0·0071	...	+ 9·349	+ 0·426	...	...
79	... ...	+ 0·8811	− 0·0137	...	+ 9·439	+ 0·109	...	...
80	... ...	+ 3·3260	− 0·0072	...	+ 9·550	+ 0·423	...	...
81	... ...	+ 1·0427	− 0·0106	...	+ 9·559	+ 0·130	...	...
82	... ...	+ 1·0443	− 0·0104	...	+ 9·563	+ 0·130	...	...
83	6 Cancri	+ 3·6979	− 0·0148	− 0·003	+ 9·710	+ 0·468	+ 0·04	1149
84	15 Argus ι	+ 2·5609	+ 0·0009	− 0·008	+ 10·195	+ 0·318	− 0·06	1170
85	Lalande 16007 ...	+ 3·3059	− 0·0076	...	+ 10·394	+ 0·407	...	...
86	... ...	+ 2·0676	+ 0·0014	...	+ 10·936	+ 0·248	...	...
87	... ...	+ 2·0724	+ 0·0014	...	+ 10·945	+ 0·248	...	...
88	V Cancri, Var 5 ...	+ 3·4270	− 0·0108	...	+ 11·112	+ 0·411	...	...
89	20 Cancri d^1	+ 3·4479	− 0·0114	− 0·005	+ 11·228	+ 0·413	+ 0·02	1185
90	33 Cancri η	+ 3·4825	− 0·0129	− 0·004	+ 11·892	+ 0·404	+ 0·05	1207
91	U Cancri, Var 4 ...	+ 3·4460	− 0·0124	...	+ 12·112	+ 0·397	...	...
92	11 Hydræ ϵ	+ 3·1956	− 0·0071	− 0·014	+ 12·901	+ 0·351	+ 0·02	1243
93	R. P. L. 60	+ 13·6983	− 1·7150	...	+ 13·479	+ 1·485	...	...
94	83 Cancri	+ 3·3669	− 0·0134	− 0·009	+ 14·903	+ 0·323	+ 0·14	1309
95	R. P. L. 69	+ 18·9411	− 5·5585	...	+ 16·244	+ 1·612	...	...
96	17 Leonis ϵ	+ 3·4219	− 0·0180	− 0·004	+ 16·365	+ 0·282	+ 0·01	1368
97	R. P. L. 70	+ 10·6457	− 1·5567	...	+ 16·832	+ 0·837	...	...
98	29 Leonis π	+ 3·1787	− 0·0080	− 0·004	+ 17·081	+ 0·236	+ 0·01	1398
99	Taylor 4503	+ 3·2199	− 0·0102	...	+ 17·435	+ 0·224	...	...
100	32 Leonis α (*Regulus*)	+ 3·2194	− 0·0102	− 0·018	+ 17·442	+ 0·225	− 0·02	1406
101	R. P. L. 72	+ 9·9019	− 1·6221	− 0·096	+ 17·835	+ 0·652	− 0·04	1399
102	41 Leonis γ^1	+ 3·2967	− 0·0148	+ 0·021	+ 17·911	+ 0·208	+ 0·14	1432
103	30 Sextantis... ...	+ 3·0723	− 0·0030	− 0·003	+ 18·317	+ 0·175	+ 0·01	1459
104	... ...	+ 3·2065	− 0·0102	...	+ 18·318	+ 0·183	...	...
105	47 Leonis ρ	+ 3·1655	− 0·0080	− 0·001	+ 18·399	+ 0·176	− 0·01	1467

72.—Proper motions from Main's list.

Mean Positions of Stars for 1875, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
106	Taylor 4850— 1st. ...	9·4	3	10	39	4·50	148	53	44·2	3	0·20
107	Taylor 4852—2nd ...	9·2	1	10	39	19·01	148	55	19·0	1	0·21
108	53 Leonis *l*	5·3	...	10	42	41·13	78	47	36·2	10	0·24
109	63 Leonis χ	4·7	...	10	58	34·08	81	59	17·9	11	0·25
110	68 Leoinis δ	2·8	...	11	7	27·48	68	47	29·4	14	0·25
111	12 Crateris δ	3·9	...	11	13	5·54	104	6	7·3	7	0·25
112	... ...	10·5	2	11	27	0·60	151	41	27·0	2	0·15
113	91 Leoins *v*	4·5	...	11	30	32·88	90	8	0·1	10	0·26
114	94 Leonis β (*Deneb*). ...	2·2	...	11	42	40·99	74	43	45·4	8	0·26
115	R. P. L. 87	8·0	...	11	53	0·97	2	18	34·8	7	0·75
116	R. P. L. 89	6·3	...	11	58	27·52	3	43	13·7	1	0·81
117	2 Corvi ε	3·1	...	12	3	41·96	111	55	27·7	2	0·31
118	R. P. L. 90	7·7	...	12	7	20·66	2	22	20·4	7	0·34
119	T Virginis, Var. 4 ...	9·8	9	12	8	11·93	95	20	27·4	10	0·23
120	... ...	8·7	5	12	8	37·63	138	27	16·4	5	0·29
121	... ...	9·6	4	12	10	31·86	138	29	43·9	4	0·32
122	... ...	9·0	2	12	11	25·42	138	25	36·7	3	0·23
123	R. P. L. 92	6·7	...	12	13	13·50	2	52	10·3	6	0·56
124	R. P. L. 93	6·7	...	12	14	20·66	1	36	25·1	12	0·46
125	... ...	9·0	2	12	17	55·33	24	46	44·3	2	0·21
126	α Crucis—2nd	...	...	12	19	40·19	152	24	26·1	5	0·20
127	... ...	9·5	2	12	25	11·65	151	48	34·4	2	0·36
128	9 Corvi β	2·8	...	12	27	49·33	112	42	19·4	4	0·31
129	R. P. L. 98	6·6	...	12	48	6·36	5	54	8·1	3	0·89
130	R. P. L. 99	5·6	...	12	48	14·24	5	54	26·4	2	0·52
131	12 Canum Venaticorum α	3·1	...	12	50	10·68	51	0	22·2	13	0·31
132	51 Virginis θ	4·4	...	13	3	28·71	94	52	15·5	16	0·33
133	R. P. L. 101	7·5	...	13	8	27·78	1	40	50·1	3	0·46
134	67 Virginis α (*Spica*) ...	1·2	...	13	18	36·49	100	30	28·6	10	0·32
135	W Virginis, Var. 9 ...	9·6	9	13	19	35·26	92	43	40·1	10	0·23
136	R. P. L. 103	7·0	...	13	19	43·97	4	35	32·8	4	0·83
137	V Virginis Var. 7 ...	10·1	7	13	21	21·07	92	31	27·8	7	0·34
138	... ...	10·9	2	13	23	51·94	88	41	39·4	2	0·36
139	79 Virginis ζ	3·5	...	13	28	19·48	89	57	21·5	8	0·34
140	... ...	9·3	5	13	36	11·84	137	1	43·4	5	0·22

116.—Groombridge 1850.
118.—Carrington 1816.
123.—Groombridge 1871.
124.—Groombridge 1884.
129.—Groombridge 1937.
130.—Groombridge 1940.
133.—Groombridge 2006.
136.—Groombridge 2007.
140.—Comparison star for comet in 1873.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
106	Taylor 4850—1st ...	+ 2·3060	+ 0·0212	...	+ 18·817	+ 0·109	...	...
107	Taylor 4852—2nd ...	+ 2·3073	+ 0·0212	...	+ 18·825	+ 0·108	...	...
108	53 Leonis *l*	+ 3·1599	− 0·0080	− 0·002	+ 18·924	+ 0·145	+ 0·02	1500
109	63 Leonis χ	+ 3·1220	− 0·0056	− 0·026	+ 19·338	+ 0·113	+ 0·02	1535
110	68 Leonis δ	+ 3·1901	− 0·0132	+ 0·010	+ 19·530	+ 0·098	+ 0·12	1546
111	12 Crateris δ... ...	+ 3·0039	+ 0·0064	− 0·011	+ 19·636	+ 0·081	− 0·21	1557
112	... ...	+ 2·7161	+ 0·0424	...	+ 19·847	+ 0·048	...	...
113	91 Leonis *v*	+ 3·0718	+ 0·0003	− 0·002	+ 19·889	+ 0·049	− 0·05	1586
114	94 Leonis β (*Denebola*)	+ 3·0998	− 0·0074	− 0·036	+ 19·997	+ 0·025	+ 0·10	1605
115	R. P. L. 87	+ 4·0812	− 1·2257	...	+ 20·045	+ 0·009	...	...
116	R. P. L. 89	+ 3·2107	− 0·4990	...	+ 20·050	− 0·006	...	...
117	2 Corvi ε	+ 3·0809	+ 0·0142	− 0·006	+ 20·052	− 0·016	− 0·02	1626
118	R. P. L. 90	+ 2·0385	− 0·2328	...	+ 20·045	− 0·019	...	...
119	T Virginis, Var. 4 ...	+ 3·0767	+ 0·0052	...	+ 20·041	− 0·025	...	...
120	... ...	+ 3·1290	+ 0·0373	...	+ 20·040	− 0·026	...	...
121	... ...	+ 3·1416	+ 0·0378	...	+ 20·033	− 0·030	...	...
122	... ...	+ 3·1473	+ 0·0379	...	+ 20·030	− 0·032	...	...
123	R. P. L. 92	+ 1·5346	+ 0·0049	+ 0·285	+ 20·021	− 0·022	+ 0·02	1656
124	R. P. L. 93	+ 0·0934	+ 1·0162	− 0·152	+ 20·015	− 0·010	− 0·07	Main
125	... ...	+ 2·8460	− 0·0523	...	+ 19·993	− 0·041	...	...
126	α Crucis—2nd ...	+ 3·2914	+ 0·0680	− 0·006	+ 19·980	− 0·050	+ 0·04	Stone
127	... ...	+ 3·3459	+ 0·0685	...	+ 19·933	− 0·063	...	...
128	9 Corvi β	+ 3·1399	+ 0·0164	− 0·003	+ 19·907	− 0·064	+ 0·05	1685
129	R. P. L. 98	+ 0·3764	+ 0·2187	− 0·017	+ 15·614	− 0·019	− 0·02	1730
130	R. P. L. 99	+ 0·3716	+ 0·2195	− 0·020	+ 19·611	− 0·019	− 0·02	1731
131	12 Canum Venat. α ...	+ 2·8371	− 0·0152	− 0·022	+ 19·576	− 0·098	− 0·07	1725
132	51 Virginis θ... ...	+ 3·1034	+ 0·0078	− 0·004	+ 19·290	− 0·132	+ 0·04	1747
133	R. P. L. 101	− 10·3459	+ 7·5327	...	+ 19·167	+ 0·436	...	...
134	67 Virginis α (*Spica*)	+ 3·1556	+ 0·0116	− 0·004	+ 18·886	− 0·163	+ 0·02	1774
135	W Virginis, Var. 9 ...	+ 3·0939	+ 0·0074	...	+ 18·863	− 0·162	...	...
136	R. P. L. 103	+ 2·6631	+ 0·9508	...	+ 18·853	+ 0·122	...	...
137	V Virginis, Var. 7 ...	+ 3·0927	+ 0·0073	...	+ 18·804	− 0·164	...	...
138	... ...	+ 3·0614	+ 0·0055	...	+ 18·726	− 0·167	...	...
139	79 Virginis ζ ...	+ 3·0718	+ 0·0064	− 0·021	+ 18·584	− 0·176	− 0·06	1789
140	... ...	+ 3·6570	+ 0·0468	...	+ 18·313	− 0·225	...	...

124.—Proper motions from Main's list.

126.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1874, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
141	Bonn + 0°. 3091... ...	10·4	1	13	36	30·77	89	38	19.1	1	0·27
142	Lacaille 5661	7·9	3	13	37	43·74·93	138	9	49·7	3	0·24
143	... ...	8·5	4	13	39	48·52·66	138	53	29·8	4	0·26
144	... ...	8·3	2	13	40	4·8	138	32	18·6	2	0·27
145	8 Bootis η	2·9	...	13	48	43·99	70	58	28·5	13	0·36
146	β Centauri	1·2	...	13	55	0·98	149	46	5·7	3	0·25
147	93 Virginis τ	4·4	...	13	55	17·15	87	50	57·9	11	0·37
148	... ...	9·7	1	14	1	8·83	150	54	17·9	1	0·29
149	R. P. L. 108	7·8	...	14	2	30·04	3	38	39·9	2	0·61
150	... ...	9·4	6	14	3	7·31	101	48	34·8	6	0·23
151	... ...	10·4	9	14	5	23·29	102	9	57·3	9	0·30
152	... ...	9·0	2	14	6	48·88	102	21	16·1	2	0·24
153	16 Bootis α (*Arcturus*).....	0·0	...	14	9	57·62	70	9	57·2	10	0·37
154	... ...	10·2	1	14	18	3·51	123	16	27·5	1	0·27
155	S Bootis Var. 2	8·0	1	14	18	41·78·61	35	37	10·9	2	0·23
156	... ...	10·3	3	14	20	6·11	124	31	48·2	3	0·27
157	25 Bootis ρ	3·6	...	14	26	26·56	59	4	44·2	11	0·41
158	O. A. N. 14652	9·0	1	14	27	11·28	20	9	52·0	1	0·23
159	α^1 Centauri	1·0	...	14	31	7·5	150	19	9·5	3	0·30
160	α^2 Centauri	1·0	...	14	31	7·57·79	150	19	4·4	4	0·26
161	36 Bootis ϵ (*Mirac*) ...	2·6	...	14	39	31·70	62	23	51·5	13	0·41
162	9 Libræ α^2	3·0	...	14	43	57·90	105	31	16·0	12	0·41
163	... ...	9·9	1	14	48	21·49	150	43	44·0	1	0·26
164	43 Bootis ψ	4·5	...	14	59	5·38	62	33	49·8	8	0·41
165	... ...	9·0	5	15	0	57·29	123	28	3·0	5	0·28
166	... ...	9·6	4	15	1	11·1	150	59	5·1	3	0·31
167	... ...	8·9	5	15	1	59·67	123	20	4·3	5	0·27
168	R. P. L. 111	7·0	...	15	4	28·05	5	33	59·9	4	0·72
169	... ...	8·7	1	15	7	26·15	130	28	59·4	1	0·27
170	27 Libræ β	2·7	...	15	10	16·92	98	55	12·1	9	0·41
171	Redhill 2293	...	...	15	13	13·67 14·41	4	23	38·1	9	0·33
172	R. P. L. 114	6·9	...	15	18	18·05	2	17	24·4	12	0·34
173	31 Libræ ϵ	5·2	...	15	18	25·39·42	99	52	16·5	2	0·25
174	W. B. E. XV. 319 ...	9·1	3	15	18	47·52	102	25	39·7	3	0·27
175	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	23·76	62	51	47·8	6	0·41

141.—Comparison star for Isis in 1871.
142—143—144.—Comparison stars for comet in 1873.
149.—Groombridge 2099.
150—151—152.—Comparison stars for Mars in 1873.
158.—Comparison star for comet 2, 1862.
167.—Comparison star for Euphrosyne in 1874.
168.—Groombridge 2213.
172.—Groombridge 2283.
174.—Comparison star for comet in 1867.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
141	Bonn + 0°.3091 ...	+ 3·0688	+ 0·0065	...	+ 18·302	− 0·191	...	...
142	Lacaille 5661 ...	+ 3·6899	+ 0·0491	...	+ 18·258	− 0·231	...	...
143	... ...	+ 3·7185	+ 0·0507	...	+ 18·183	− 0·237	...	...
144	... ...	+ 3·7121	+ 0·0500	...	+ 18·173	− 0·237	...	...
145	8 Bootis η	+ 2·8616	− 0·0006	− 0·005	+ 17·839	− 0·199	+ 0·34	1821
146	β Centauri	+ 4·1759	+ 0·0841	− 0·010	+ 17·581	− 0·301	+ 0·05	Stone
147	93 Virginis τ... ...	+ 3·0480	+ 0·0064	− 0·001	+ 17·570	− 0·221	+ 0·03	1829
148	... ...	+ 4·2839	+ 0·0897	...	+ 17·317	− 0·320	...	...
149	R. P. L. 108	− 7·6206	+ 2·4175	...	+ 17·257	+ 0·559	...	...
150	... ...	+ 3·2153	+ 0·0134	...	+ 17·230	− 0·247	...	...
151	... ...	+ 3·2221	+ 0·0136	...	+ 17·127	− 0·251	...	...
152	... .	+ 3·2260	+ 0·0137	...	+ 17·062	− 0·254	...	...
153	16 Bootis α	+ 2·8132	+ 0·0004	− 0·080	+ 16·916	− 0·227	+ 1·98	1847
154	... ...	+ 3·5694	+ 0·0292	...	+ 16·524	− 0·301	...	...
155	S. Bootis, Var 2 ...	+ 2·0106	− 0·0022	...	+ 16·492	− 0·174	...	...
156	... ...	+ 3·6002	+ 0·0304	...	+ 16·423	− 0·308	...	...
157	25 Bootis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·098	− 0·233	− 0·13	1869
158	O. A. N. 14652 ...	+ 0·8916	+ 0·0366	...	+ 16·060	− 0·084	...	...
159	α^1 Centauri	+ 4·5092	+ 0·0878	− 0·476	+ 15·850	− 0·410	− 0·81	Stone
160	α^2 Centauri	+ 4·5092	+ 0·0878	− 0·476	+ 15·850	− 0·410	− 0·81	Stone
161	36 Bootis ϵ	+ 2·6240	− 0·0001	− 0·004	+ 15·389	− 0·252	− 0·00	1890
162	9 Librae α^2	+ 3·3157	+ 0·0154	− 0·009	+ 15·137	− 0·324	+ 0·07	1894
163	.. ..	+ 4·6709	+ 0·0883	...	+ 14·883	− 0·460	...	...
164	43 Bootis ψ	+ 2·5834	+ 0·0010	− 0·015	+ 14·237	− 0·271	+ 0·01	1922
165	... ...	+ 3·6997	+ 0·0276	...	+ 14·122	− 0·389	...	...
166	.. ..	+ 4·7854	+ 0·0878	...	+ 14·107	− 0·502	...	...
167	... ...	+ 3·6994	+ 0·0275	...	+ 14·057	− 0·391	...	...
168	R. P. L. 111	− 6·8150	+ 1·1676	...	+ 13·901	+ 0·710	...	...
169	... ...	+ 3·9050	+ 0·0349	...	+ 13·713	− 0·420	...	...
170	27 Librae β	+ 3·2271	+ 0·0117	− 0·008	+ 13·530	− 0·353	+ 0·02	1934
171	Redhill 2293 ...	− 9·9211	+ 1·9443	...	+ 13·338	+ 1·075	...	...
172	R. P. L. 114	− 22·3778	+ 7·5556	...	+ 13·003	+ 2·478	...	...
173	31 Librae ϵ	+ 3·2494	+ 0·0120	− 0·008	+ 12·997	− 0·367	+ 0·15	1944
174	W. B. E. XV. 319 ...	+ 3·2969	+ 0·0131	...	+ 12·972	− 0·373	...	...
175	5 Coronae Borealis α...	+ 2·5297	+ 0·0023	+ 0·009	+ 12·250	− 0·297	+ 0·09	1973

146—159—160.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1875, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
176	... ...	9·3	3	15	29	39·34	119	39	59·6	3	0·35
177	Lalande 28530	9·0	2	15	32	13·48	47	27	28·5	2	0·27
178	... ...	9·7	4	15	33	0·50	116	38	49·6	4	0·35
179	... ...	9·4	3	15	34	18·42	126	37	23·0	3	0·33
180	24 Serpentis α	2·7	...	15	38	6·70	83	10	45·8	6	0·42
181	O. A. S. 14841	9·0	2	15	38	27·85	114	9	53·1 41·2	2	0·34
182	Lacaille 6524	6·0	4	15	41	24·75	144	40	17·5	4	0·28
183	... ...	10·2	3	15	42	59·30	61	48	47·9	3	0·35
184	O. A. S. 14934	9·6	2	15	43	27·10	107	54	28·5	2	0·29
185	... ...	9·2	3	15	44	34·76	104	23	35·2	3	0·31
186	W. B. E. XV. 861 ...	9·5	3	15	46	8·29	101	27	30·8	3	0·34
187	Radcliffe 3462	8·0	2	15	46	42·92	47	3	35·4	2	0·32
188	R. P. L. 115	7·0	...	15	46	45·09	4	45	56·0	14	0·26
189	... ...	9·1	5	15	47	1·88	147	12	42·9	5	0·36
190	16 Ursæ Minoris ζ ...	4·5	...	15	48	34·52	11	49	18·3	1	0·30
191	4 Herculis	5·7	...	15	51	18·38	47	4	8·9	1	0·30
192	... ...	7·2	1	15	51	54·48	143	47	12·7	1	0·34
193	O. A. S. 15089	9·0	4	15	52	8·10	105	51	44·6	4	0·34
194	T Coronæ, Var. 3 ...	9·6	8	15	54	16·41	63	43	32·6	10	0·42
195	O. A. S. 15146	8·8	1	15	55	24·84	107	30	41·4	1	0·27
196	O. A. S. 15148	9·0	3	15	55	27·41	107	49	14·4	3	0·36
197	... ...	8·9	5	15	55	59·43	126	57	33·3	5	0·45
198	8 Scorpii β^1	3·0	...	15	58	10·29	109	27	40·3	5	0·50
199	... ...	8·1	1	16	0	35·60	105	18	9·6	1	0·27
200	R. P. L. 116	7·0	...	16	2	26·53	4	20	31·5	2	0·29
201	1 Ophiuchi δ	2·8	...	16	7	47·73	93	22	15·0	7	0·51
202	... ...	9·2	1	16	10	22·64	112	35	18·1	1	0·33
203	... ...	9·3	2	16	16	42·32	152	18	40·4	2	0·31
204	21 Scorpii α (*Antares*) ...	1·1	...	16	21	44·68	116	9	8·2	5	0·47
205	14 Draconis η	2·8	...	16	22	18·50	28	12	7·1	7	0·29
206	30 Herculis y, Var. 5 ...	Var.	...	16	24	32·12	47	50	31·5	4	0·32
207	... ...	9·2	3	16	24	42·76	152	16	30·5	4	0·37
208	O. A. S. 15722	9·9	3	16	26	8·92	111	5	14·2	5	0·52
209	... ...	8·2	5	16	27	4·49	132	57	1·8	5	0·36
210	... ...	9·0	2	16	29	21·95	152	18	8·8	3	0·39

181.—Comparison star for Iphigenia in 1873.
182—189.—Comparison stars for Niobe in 1874.
184—195—196.—Comparison stars for Sylvia in 1866.
185—193.—Comparison stars for Asia in 1861.
186.—Comparison star for Sappho in 1871.
188.—Carrington 2380.
197.—Comparison star for Thyra in 1874.
199.—Comparison star for Sappho in 1864.
200.—Carrington 2423.
202.—Observed for map of R. S. T. Scorpii, Vars.
208.—Comparison star for Donati's comet in 1858.
209.—Comparison star for Comet 2, 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	*″*	*″*	*″*	
176	... ...	+ 3·6758	+ 0·0224	...	+ 12·232	− 0·429	...	...
177	Lalande 28530 ...	+ 2·0918	+ 0·0025	...	+ 12·053	− 0·249	...	...
178	... ...	+ 3·6098	+ 0·0201	...	+ 11·999	− 0·426	...	...
179	... ...	+ 3·8719	+ 0·0278	...	+ 11·907	− 0·458	...	...
180	24 Serpentis *a* ...	+ 2·9420	+ 0·0062	+ 0·003	+ 11·638	− 0·354	− 0·06	1990
181	O. A. S. 14841 ...	+ 3·5613	+ 0·0181	...	+ 11·613	− 0·428	...	...
182	Lacaille 6524 ...	+ 4·6239	+ 0·0555	...	+ 11·402	− 0·560	...	...
183	... ...	+ 2·4798	+ 0·0027	...	+ 11·287	− 0·304	...	...
184	O. A. S. 14934 ...	+ 3·4299	+ 0·0145	...	+ 11·253	− 0·418	...	...
185	... ...	+ 3·3572	+ 0·0129	...	+ 11·172	− 0·411	...	...
186	W. B. E. XV. 861 ...	+ 3·2983	+ 0·0116	...	+ 11·059	− 0·406	...	...
187	Radcliffe 3462 ...	+ 2·0327	+ 0·0033	...	+ 11·017	− 0·252	...	...
188	R. P. L. 115	− 10·3281	+ 1·5336	...	+ 11·014	+ 1·254	...	...
189	... ...	+ 4·8080	+ 0·0613	...	+ 10·993	− 0·591	...	..
190	16 Ursæ Minoris ζ ...	− 2·2031	+ 0·2031	+ 0·003	+ 10·881	+ 0·276	+ 0·00	2041
191	4 Herculis	+ 2·0195	+ 0·0035	− 0·001	+ 10·679	− 0·254	+ 0·01	2028
192	... ...	+ 4·6204	+ 0·0506	...	+ 10·633	− 0·575	...	...
193	O. A. S. 15089 ...	+ 3·3945	+ 0·0131	...	+ 10·617	− 0·424	...	...
194	T Coronæ, Var. 3 ...	+ 2·5090	+ 0·0030	...	+ 10·458	− 0·316	...	...
195	O. A. S. 15146 ...	+ 3·4333	+ 0·0135	...	+ 10·372	− 0·432	...	...
196	O. A. S. 15148 ...	+ 3·4401	+ 0·0137	...	+ 10·369	− 0·433	...	...
197	... ...	+ 3·9345	+ 0·0253	...	+ 10·329	− 0·495	...	...
198	8 Scorpii β^1	+ 3·4794	+ 0·0142	− 0·003	+ 10·165	− 0·441	+ 0·03	2034
199	... ...	+ 3·3896	+ 0·0123	...	+ 9·982	− 0·432	...	...
200	R. P. L. 116	− 12·2678	+ 1·7486	...	+ 9·840	+ 1·555	...	...
201	1 Ophiuchi δ... ...	+ 3·1417	+ 0·0081	− 0·005	+ 9·431	− 0·408	+ 0·14	2065
202	... ...	+ 3·5660	+ 0·0147	...	+ 9·230	− 0·465	...	...
203	... ...	+ 5·3656	+ 0·0682	...	+ 8·736	− 0·706	...	...
204	21 Scorpii *a* (*Antares*).	+ 3·6693	+ 0·0150	− 0·002	+ 8·337	− 0·491	+ 0·03	2091
205	14 Draconis *η* ...	+ 0·8022	+ 0·0188	+ 0·006	+ 8·292	− 0·111	− 0·05	2104
206	30 Herculis *g*, Var. 5.	+ 1·9653	+ 0·0042	0·000	+ 8·114	− 0·265	+ 0·04	2102
207	... ...	+ 5·3094	+ 0·0638	...	+ 8·100	− 0·722	...	...
208	O. A. S. 15722 ...	+ 3·5451	+ 0·0125	...	+ 7·985	− 0·477	...	...
209	... ...	+ 4·2159	+ 0·0253	...	+ 7·910	− 0·568	...	...
210	... ...	+ 5·4225	+ 0·0614	...	+ 7·726	− 0·731	...	...

Mean Positions of Stars for 1875, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	... ...	7·2	4	16	29	35·934	133	8	34·2	5	0·64
212	... ...	9·6	2	16	29	54·82	130	32	45·5	2	0·40
213	... ...	9·2	5	16	31	28·82	121	28	25·3	5	0·49
214	Brisbane 5784	9·2	2	16	31	52·96	150	40	48·3	2	0·32
215	α Trianguli Australis ...	...	...	16	35	26·93·86	158	47	40·9	4	0·32
216	40 Herculis ζ	3·1	...	16	36	34·44	58	10	10·3	7	0·49
217	... ...	9·0	5	16	41	2·48	139	5	3·6	5	0·35
218	... ...	9·0	5	16	41	19·94	138	59	18·3	5	0·37
219	... ...	7·3	2	16	42	25·424	138	53	48·1	2	0·64
220	... ...	7·0	4	16	45	0·13	139	30	0·0	5	0·39
221	S Herculis, Var. 3 ...	8·7	5	16	46	12·50	74	50	47·3	5	0·31
222	49 Herculis	6·4	...	16	46	23·19	74	48	53·9	2	0·31
223	... ...	8·5	3	16	47	36·80	130	17	34·5	3	0·36
224	... ...	9·5	3	16	47	48·98 (9·10)	131	0	47·0	3	0·34
225	Taylor 7832	8·7	1	16	48	14·26	130	18	38·7	1	0·32
226	... ...	8·0	1	16	48	16·14	121	6	13·2	1	0·32
227	27 Ophiuchi κ	3·4	...	16	51	45·09	80	25	43·7	17	0·52
228	O. A. S. 16232	10·0	1	16	54	36·436	110	15	48·1	1	0·33
229	22 Ursæ Minoris ε ...	4·5	...	16	58	40·65 (50·45)	7	45	38·0	1	0·08
230	G. Z. C. XVII. 421 ...	9·5	2	17	6	22·997	130	54	33·9	2	0·33
231	G. Z. C. XVII. 442 ...	9·3	1	17	6	52·92	130	54	52·7	1	0·32
232	... ...	8·9	2	17	6	59·89·92	137	25	52·6	2	0·65
233	64 Herculis α, Var. 1 ...	Var.	...	17	8	56·86	75	27	54·5	15	0·52
234	42 Ophiuchi θ	3·4	...	17	14	20·07	114	52	21·6	5	0·55
235	... ...	9·0	4	17	22	36·44	131	54	38·2	4	0·40
236	23 Draconis β	3·0	...	17	27	36·60	37	36	16·7	3	0·36
237	G. Z. C. XVII. 1907 ...	9·2	1	17	27	58·21·23	150	36	7·6	1	0·33
238	55 Ophiuchi α	2·2	...	17	29	7·94	77	20	49·4	4	0·54
239	... ...	9·0	6	17	30	19·50	117	58	5·4	10	0·55
240	... ...	9·5	1	17	35	18·88	126	15	26·5	1	0·38
241	... ...	9·8	1	17	35	19·39	128	35	48·4	1	0·37
242	O. A. S. 17105	8·6	6	17	35	25·50	117	49	16·6	10	0·55
243	... ...	9·2	1	17	37	2·37	150	36	25·9	1	0·38
244	... ...	9·5	3	17	37	22·59	150	37	28·6	3	0·38
245	... ...	10·0	2	17	40	1·78	127	17	46·9	2	0·38

213.—Comparison star for Amphitrite in 1875.
217—218—219—220.—Comparison stars for comet in 1862.
226.—Comparison star for Alexandra in 1871.
228.—Observed for map of Serpentis, Var. 4.
239—242.—Comparison stars for Mars in 1875.
240.—Comparison star for Donati's comet in 1858.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	″	″	″	
211	... ...	+ 0·6262	+ 0·0249	...	+ 7·707	− 0·572	...	...
212	... ...	+ 4·1411	+ 0·0228	...	+ 7·681	− 0·561	...	...
213	... ...	+ 3·8303	+ 0·0164	...	+ 7·555	− 0·521	...	...
214	Brisbane 5784 ...	+ 5·2791	+ 0·0545	...	+ 7·522	− 0·715	...	...
215	α Trianguli Australis.	+ 6·2862	+ 0·0907	0·000	+ 7·232	− 0·858	+ 0·06	Stone
216	40 Herculis ζ ...	+ 2·2967	+ 0·0033	− 0·036	+ 7·140	− 0·316	− 0·41	2127
217	... ...	+ 4·5241	+ 0·0281	...	+ 6·773	− 0·624	...	...
218	... ...	+ 4·5200	+ 0·0279	...	+ 6·749	− 0·624	...	...
219	... ...	+ 4·5176	+ 0·0275	...	+ 6·659	− 0·624	...	...
220	... ...	+ 4·5545	+ 0·0271	...	+ 6·446	− 0·623	...	...
221	S Herculis, Var. 3 ...	+ 2·7288	+ 0·0039	...	+ 6·346	− 0·380	...	...
222	49 Herculis ..	+ 2·7279	+ 0·0040	+ 0·000	+ 6·331	− 0·381	+ 0·00	2144
223	... ...	+ 4·1497	+ 0·0186	...	+ 6·229	− 0·578	...	...
224	... ...	+ 4·1778	+ 0·0192	...	+ 6·212	− 0·581	...	...
225	Taylor 7832	+ 4·1514	+ 0·0186	...	+ 6·177	− 0·578	...	...
226	... ...	+ 3·8396	+ 0·0137	...	+ 6·174	− 0·536	...	...
227	27 Ophiuchi κ ...	+ 2·8567	+ 0·0044	− 0·021	+ 5·884	− 0·402	− 0·02	2156
228	O. A. S. 16232 ...	+ 3·5458	+ 0·0093	...	+ 5·645	− 0·498	...	...
229	22 Ursæ Minoris ε ...	− 6·3902	+ 0·3075	+ 0·009	+ 5·200	+ 0·897	+ 0·00	2201
230	G. Z. C. XVII. 421 ...	+ 4·1992	+ 0·0149	...	+ 4·649	− 0·597	...	...
231	G. Z. C. XVII. 442 ..	+ 4·1999	+ 0·0146	...	+ 4·607	− 0·598	...	...
232	... ...	+ 4·4891	+ 0·0187	...	+ 4·596	− 0·638	...	...
233	64 Herculis α, Var. 1.	+ 2·7342	+ 0·0035	− 0·002	+ 4·430	− 0·391	− 0·03	2183
234	42 Ophiuchi θ ...	+ 3·6797	+ 0·0080	− 0·002	+ 3·970	− 0·528	+ 0·04	2189
235	... .	+ 4·2563	+ 0·0112	...	+ 3·258	− 0·614	...	...
236	23 Draconis β ...	+ 1·3538	+ 0·0052	− 0·002	+ 2·825	− 0·197	− 0·00	2221
237	G. Z. C. XVII. 1907...	+ 5·4221	+ 0·0219	...	+ 2·793	− 0·783	...	...
238	55 Ophiuchi α ...	+ 2·7748	+ 0·0030	+ 0·007	+ 2·693	− 0·402	+ 0·22	2218
239	... ...	+ 3·7762	+ 0·0061	...	+ 2·589	− 0·547	...	...
240	... ...	+ 4·0472	+ 0·0069	...	+ 2·156	− 0·587	...	...
241	... ...	+ 4·1332	+ 0·0072	...	+ 2·155	− 0·600	...	...
242	O. A. S. 17105 ...	+ 3·7737	+ 0·0055	...	+ 2·146	− 0·548	...	...
243	... ...	+ 5·4338	+ 0·0162	...	+ 2·004	− 0·797	...	...
244	... ...	+ 5·4358	+ 0·0155	...	+ 1·976	− 0·799	...	...
245	... ...	+ 4·0867	+ 0·0061	...	+ 1·746	− 0·594	...	...

215.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1875, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
246	86 Herculis μ	3·5	...	17	41	33·95	62	12	17·2	9	0·57
247	31 Draconis ψ^1—2nd ...	6·0	...	17	44	11·57	17	46	52·8	1	0·38
248	... ...	9·0	2	17	45	48·56	128	47	53·6	2	0·64
249	... ...	10·0	2	18	4	22·47	59	9	47·0	2	0·38
250	... ...	10·4	3	18	5	31·17	120	43	30·4	3	0·43
251	13 Sagittarii μ	4·1	...	18	6	17·25	111	5	21·7	9	0·59
252	... ...	8·0	2	18	7	26·88	122	22	36·9	2	0·39
253	... ...	9·5	1	18	8	48·80	122	24	31·6	1	0·68
254	24 Ursæ Minoris	5·9	...	18	17	3·77	3	0	47·9	10	0·53
255	... ...	10·5	1	18	30	6·53	136	54	58·4	2	0·53
256	3 Lyræ α (*Vega*)	0·2	...	18	32	42·38	51	19	52·8	2	0·66
257	10 Lyræ β^1, Var. 1 ...	Var.	...	18	45	27·88	56	46	51·1	3	0·59
258	R. P. L. 131	6·5	...	18	55	30·38	3	27	5·1	5	0·30
259	17 Aquilæ ζ	3·1	...	18	59	39·82	76	19	14·5	12	0·63
260	R Sagittarii, Var. 1 ...	8·0	4	19	9	21·56	109	31	31·2	4	0·48
261	O. A. S. 19353	7·7	2	19	11	0·30	116	17	49·9	2	0·43
262	O. A. S. 19366	8·3	2	19	11	19·68	116	15	57·3	2	0·50
263	25 Aquilæ ω	5·1	...	19	11	56·86	78	37	42·3	6	0·65
264	S Sagittarii, Var. 2 ...	10·8	2	19	12	6·87	109	14	56·8	3	0·56
265	30 Aquilæ δ	3·5	...	19	19	11·73	87	7	56·9	4	0·66
266	52 Sagittarii h^3	4·6	...	19	29	5·88	115	9	26·9	1	0·68
267	50 Aquilæ γ	2·8	...	19	40	18·97	79	41	23·4	10	0·65
268	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	41·06	81	27	36·2	5	0·67
269	60 Aquilæ β	4·0	...	19	49	10·38	83	54	12·9	4	0·68
270	R Sagittæ, Var. 1... ...	9·1	1	20	8	22·18	73	39	3·7	1	0·49
271	R Delphini, Var. 2 ...	9·5	8	20	8	52·93	81	17	19·6	9	0·72
272	6 Capricorni α^2	3·8	...	20	11	7·06	102	55	52·5	1	0·60
273	... ...	10·5	1	20	16	37·84	106	30	35·7	2	0·55
274	24 Cephei (*Hev.*)	Var.	...	20	19	43·33	1	14	56·4	2	0·73
275	11 Capricorni ρ	5·0	...	20	21	43·64	108	13	29·4	5	0·72
276	Cordoba XX. 865... ...	8·6	4	20	26	14·08	150	24	22·7	4	0·58
277	R. P. L. 143	6·7	...	20	28	8·00	5	16	16·5	1	0·17
278	50 Cygni α (*Deneb*) ...	1·5	...	20	37	10·25	45	9	56·1	3	0·67
279	T Delphini, Var. 3 ...	9·0	7	20	39	33·71	74	3	14·4	7	0·38
280	... ...	10·5	4	20	39	45·16	74	3	11·6	4	0·71

258.—Carrington 2882.
261—262.—Comparison stars for D'Arrest's comet in 1870.
273.—Comparison star for Hestia in 1865.
274.—Ursæ Minoris, Var. 2.
277.—Carrington 3128.
280.—Observed for map of T Delphini, Var. 3.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
246	86 Herculis μ ...	+ 2·3697	+ 0·0025	− 0·024	+ 1·611	− 0·346	+ 0·75	2237
247	31 Draconis ψ^1—2nd..	− 1·0864	+ 0·0156	− 0·001	+ 1·382	+ 0·157	+ 0·28	2252
248	... ...	+ 4·1450	+ 0·0049	...	+ 1·241	− 0·604	...	...
249	... ...	+ 2·2743	+ 0·0021	...	− 0·382	− 0·332	...	...
250	... ...	+ 3·8667	+ 0·0007	...	− 0·483	− 0·564	...	...
251	13 Sagittarii μ ...	+ 3·5876	+ 0·0009	− 0·001	− 0·550	− 0·523	− 0·00	2284
252	... ...	+ 3·9194	+ 0·0001	...	− 0·652	− 0·571	...	...
253	... ...	+ 3·9203	− 0·0001	...	− 0·771	− 0·571	...	...
254	24 Ursæ Minoris ...	− 22·2522	− 0·6281	+ 0·085	− 1·492	+ 3·238	− 0·01	Gr.
255	... ...	+ 4·4894	− 0·0084	...	− 2·627	− 0·648	...	...
256	3 Lyræ α (*Vega*) ...	+ 2·0132	+ 0·0016	+ 0·017	− 2·852	− 0·290	− 0·30	2341
257	10 Lyræ β^1, Var. 1....	+ 2·2139	+ 0·0015	− 0·001	− 3·952	− 0·315	− 0·02	2369
258	R. P. L. 131	− 18·4472	− 1·5374	...	− 4·809	+ 2·614	...	...
259	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·162	− 0·387	+ 0·09	2405
260	R Sagittarii, Var. 1....	+ 3·5249	− 0·0060	...	− 5·977	− 0·488	...	...
261	O. A. S. 19353 ...	+ 3·7014	− 0·0086	...	− 6·114	− 0·511	...	...
262	O. A. S. 19366 ...	+ 3·7003	− 0·0085	...	− 6·140	− 0·511	...	...
263	25 Aquilæ ω ...	+ 2·8165	− 0·0003	− 0·001	− 6·193	− 0·388	− 0·03	2432
264	S Sagittarii, Var. 2. ...	+ 3·5161	− 0·0064	...	− 6·207	− 0·485	...	...
265	30 Aquilæ δ	+ 3·0092	− 0·0018	+ 0·015	− 6·793	− 0·410	− 0·09	2451
266	52 Sagittarii h^2 ...	+ 3·6532	− 0·0102	+ 0·002	− 7·602	− 0·490	+ 0·01	2478
267	50 Aquilæ γ ...	+ 2·8519	− 0·0011	− 0·001	− 8·500	− 0·373	− 0·01	2511
268	53 Aquilæ α (*Altair*)...	+ 2·8920	− 0·0014	+ 0·035	− 8·845	− 0·374	− 0·38	2524
269	60 Aquilæ β	+ 2·9453	− 0·0020	+ 0·001	− 9·196	− 0·378	+ 0·47	2538
270	R Sagittæ, Var. 1. ...	+ 2·7398	− 0·0020	...	− 10·640	− 0·186	...	...
271	R Delphini, Var. 2. ...	+ 2·8990	− 0·0017	...	− 10·692	− 0·353	...	...
272	6 Capricorni α^2 ...	+ 3·3303	− 0·0084	+ 0·002	− 10·858	− 0·403	− 0·02	2595
273	... ...	+ 3·4001	− 0·0103	...	− 11·260	− 0·405	...	...
274	24 Cephei (*Her.*) ...	− 47·1941	− 24·8275	...	− 11·483	+ 5·645	...	...
275	11 Capricorni ρ ...	+ 3·4309	− 0·0115	− 0·003	− 11·626	− 0·403	+ 0·01	2626
276	Cordoba XX. 865 ...	+ 4·9631	− 0·0750	...	− 11·945	− 0·575	...	...
277	R. P. L. 143 ...	− 8·4952	− 1·2729	...	− 12·079	+ 0·994	...	...
278	50 Cygni α (*Deneb*) ...	+ 2·0435	+ 0·0021	− 0·000	− 12·700	− 0·226	− 0·00	2679
279	T Delphini, Var. 3 ...	+ 2·7791	0·0000	...	− 12·862	− 0·305	...	'...
280	... ...	+ 2·7793	0·0000	...	− 12·874	− 0·305	...	...

254.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1875, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
281	... ...	10·5	1	20	41	45·52	105	15	58·7	2	0·55
282	32 Vulpeculæ	5·1	...	20	49	13·98	62	25	0·8	6	0·73
283	64 Cygni ζ	3·4	...	21	7	36·95	60	17	6·1	14	0·72
284	22 Aquarii β	3·1	...	21	24	58·61	96	7	11·8	16	0·74
285	8 Pegasi ϵ...	2·4	...	21	38	2·75	80	41	49·7	9	0·76
286	... ...	10·0	1	21	41	24·31	102	29	23·6	1	0·72
287	16 Pegasi	5·0	...	21	47	22·50	64	39	44·2	8	0·76
288	34 Aquarii α	3·2	...	21	59	21·70	90	55	34·8	6	0·80
289	T Pegasi, Var. 4. ...	10·5	5	22	2	47·53	78	4	15·5	5	0·84
290	... ...	9·5	1	22	3	54·96	101	5	38·5	1	0·68
291	43 Aquarii θ	4·3	...	22	10	14·15	98	24	16·2	11	0·79
292	R. P. L. 150	5·5	...	22	22	56·55·67	4	31	21·2	6	0·43
293	R. P. L. 151	6·9	...	22	23	23·85·64	4	24	27·8	3	0·51
294	R. P. L. 153	7·6	...	22	28	2·55	2	33	16·1	3	0·15
295	62 Aquarii η	4·2	...	22	28	55·93	90	45	38·8	6	0·82
296	T Aquarii, Var. 3. ...	10·5	4	22	29	19·69	98	15	5·9	4	0·85
297	42 Pegasi ζ	3·6	...	22	35	13·58	79	49	13·2	11	0·83
298	... ...	7·1	3	22	46	24·2¢	130	5	2·7	3	0·89
299	24 Pis. Aus. α (*Fomalhaut*)	1·3	...	22	50	44·3¼	120	17	3·7	5	0·83
300	54 Pegasi α (*Markab*) ...	2·6	...	22	58	32·05	75	28	0·2	5	0·83
301	6 Piscium γ	3·8	...	23	10	41·05	87	23	59·3	8	0·85
302	W. B. E. XXIII. 190 ...	9·1	5	23	11	10·86	82	28	9·7	5	0·79
303	Lalande 45607	8·0	4	23	11	40·80	81	10	41·0	5	0·73
304	8 Piscium κ	5·0	...	23	20	31·44	89	25	42·1	8	0·86
305	W. B. E. XXIII. 424 ...	9·5	5	23	22	21·44	78	44	32·7	5	0·72
306	R. P. L. 158	5·7	...	23	27	49·34·72	3	22	56·1	6	0·58
307	17 Piscium ι	4·3	...	23	33	31·22	85	3	3·1	9	0·86
308	δ Sculptoris	4·6	...	23	42	24·6$	118	49	17·0	5	0·88
309	G. C. Z. XXIII. 1321 ...	9·3	1	23	48	31·74	150	39	57·5	1	0·69
310	28 Piscium ω	4·2	...	23	52	53·54	83	49	41·5	3	0·88

292.—Groombridge 3820.
293.—Groombridge 3824.
294.—Carrington 3466.

302—303—305.—Comparison stars for Sappho in 1875.
306.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	*″*	*″*	*″*	
281	... ...	+ 3·3500	− 0·0109	...	− 13·008	− 0·367	...	...
282	32 Vulpeculæ ...	+ 2·5557	+ 0·0026	− 0·002	− 13·499	− 0·270	+ 0·00	2709
283	64 Cygni ζ	+ 2·5509	+ 0·0038	− 0·002	− 14·644	− 0·248	+ 0·07	2760
284	22 Aquarii β ...	+ 3·1619	− 0·0071	− 0·001	− 15·639	− 0·282	+ 0·00	2797
285	8 Pegasi ε	+ 2·9451	− 0·0005	+ 0·001	− 16·329	− 0·242	− 0·01	2835
286	... ...	+ 3·2407	− 0·0104	...	− 16·497	− 0·263	...	...
287	16 Pegasi	+ 2·7260	+ 0·0052	− 0·001	− 16·789	− 0·210	+ 0·00	2864
288	34 Aquarii α ...	+ 3·0831	− 0·0041	− 0·001	− 17·340	− 0·219	− 0·00	2890
289	T Pegasi, Var. 4 ...	+ 2·9340	+ 0·0015	...	− 17·488	− 0·203	...	...
290	... ...	+ 3·1993	− 0·0092	...	− 17·536	− 0·219	...	...
291	43 Aquarii θ... ...	+ 3·1632	− 0·0075	+ 0·006	− 17·798	− 0·205	+ 0·02	2929
292	R. P. L. 150	− 3·8738	− 1·2128	+ 0·053	− 18·282	+ 0·242	− 0·04	2993
293	R. P. L. 151	− 4·0246	− 1·2796	+ 0·025	− 18·300	+ 0·248	− 0·01	2997
294	R. P. L. 153	− 8·6321	− 4·0821	...	− 18·462	+ 0·500	...	...
295	62 Aquarii η... ...	+ 3·0791	− 0·0031	+ 0·006	− 18·492	− 0·166	+ 0·11	2979
296	T Aquarii, Var. 3 ...	+ 3·1470	− 0·0072	...	− 18·505	− 0·170	...	...
297	42 Pegasi ζ	+ 2·9854	+ 0·0023	+ 0·004	− 18·698	− 0·149	+ 0·02	2992
298	... ...	+ 3·4271	− 0·0317	...	− 19·029	− 0·150	...	...
299	24 Piscis Aust. α ...	+ 3·3046	− 0·0210	+ 0·023	− 19·146	− 0·135	+ 0·16	3032
300	54 Pegasi α (*Markab*).	+ 2·9804	+ 0·0056	+ 0·003	− 19·337	− 0·107	+ 0·03	3050
301	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·592	− 0·087	− 0·02	3082
302	W. B. E. XXIII. 190.	+ 3·0348	+ 0·0029	...	− 19·601	− 0·086	...	...
303	Lalande 45607 ...	+ 3·0288	+ 0·0036	...	− 19·609	− 0·085	...	...
304	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·758	− 0·069	+ 0·10	3116
305	W. B. E. XXIII. 424.	+ 3·0287	+ 0·0055	...	− 19·784	− 0·065	...	...
306	R. P. L. 158	− 0·0934	− 0·5293	+ 0·084	− 19·857	+ 0·011	− 0·00	3147
307	17 Piscium ι... ...	+ 3·0588	+ 0·0030	+ 0·023	− 19·921	− 0·042	+ 0·44	3148
308	δ Sculptoris	+ 3·1286	− 0·0161	+ 0·009	− 19·995	− 0·026	+ 0·10	Stone
309	G. C. Z. XXIII. 1321.	+ 3·1912	− 0·0561	...	− 20·030	− 0·015	...	...
310	28 Piscium ω ...	+ 3·0677	+ 0·0047	+ 0·009	− 20·045	− 0·005	+ 0·11	3191

308.—Proper motions from *Stone's Cape Catalogue.*

SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1876

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′	Observer.
1		11 *Cassiopeiæ* β			
Dec. 12	2·7	0 2 34·34	...	31 32 4·1	M
19	2·6	2 34·17	...	32 3·5	M
2		ϵ *Phœnicis.*			
Dec. 16	4·3	0 3 6·75	...	136 25 53·7	M
18	4·4	3 6·87	...	25 55·5	M
3		8 *Ceti* ι			
Dec. 12	4·0	0 13 6·63	...	99 30 42·3	M
13	4·6	13 6·67	...	30 42·4	M
14	4·6	13 6·58	...	30 42·4	M
15	4·7	13 6·44	...	30 42·2	M
4		*O. A. N.* 282.			
Oct. 30	8·1	0 16 42·34	...	34 53 7·9	M
31	8·1	16 42·22	...	53 8·2	M
Nov. 1	8·2	16 42·22	...	53 8·1	M
2	8·2	16 42·30	...	53 8·4	M
3	8·1	16 42·45	...	53 7·6	M
5		κ *Phœnicis.*			
Dec. 13	4·3	0 20 6·02	...	134 22 6·7	M
14	4·0	20 5·82	...	22 8·1	M
15	4·2	20 5·78	...	22 6·5	M
6		α *Phœnicis.*			
Dec. 16	2·0	0 20 9·02	...	132 58 48·2	M
18	2·2	20 9·33	...	58 47·8	M
19	2·0	20 9·05	...	58 46·8	M
7		12 *Ceti.*			
Nov. 27	...	0 23 42·65	...	94 38 34·3	M
8		β *Tucanæ*—1*st.*			
Dec. 12	4·3	0 25 51·32	...	153 38 32·7	M
19	4·4	25 51·45	...	38 33·5	M
9		β *Tucanæ*—2*nd.*			
Dec. 20	4·6	0 25 52·05	5	153 38 55·3	M
21	4·7	25 52·16	...	38 58·0	M
22	4·7	25 51·81	5	38 58·9	M
10		31 *Andromedæ* δ			
Dec. 13	3·9	0 32 42·14	...	59 49 4·7	M
14	3·6	32 42·01	...	49 5·3	M
15	3·7	32 42·00	...	49 7·0	M
11		16 *Ceti* β			
Nov. 14	...	0 37 21·80	...	108 40 3·2	M
12		24 *Cassiopeiæ* η—1*st.*			
Dec. 12	4·4	0 41 36·81	...	32 50 33·6	M
13	4·3	41 36·76	...	50 34·7	M
14	4·4	41 36·83	...	50 34·3	M
15	4·0	41 36·99	...	50 35·1	M
13		24 *Cassiopeiæ* η—2*nd.*			
Dec. 16	8·3	0 41 37·07	...	32 50 38·4	M
18	8·2	41 37·03	...	50 39·4	M
20	8·5	41 36·94	...	50 37·0	M
21	8·4	41 37·16	...	50 38·3	M
14		27 *Cassiopeiæ* γ			
Dec. 14	3·0	0 49 14·37	...	29 57 19·8	M
16	3·0	49 14·45	...	57 16·4	M
19	3·4	49 14·36	...	57 18·0	M
15		2 *Ursæ Minoris.*			
Nov. 27	...	0 52 8·14	3	4 24 33·8	M
Dec. 15	...	52 8·09	3	24 33·2	M
18	...	52 8·08	3	24 32·7	M
20	...	52 8·61	3	24 33·2	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
2 *Ursæ Minoris—s.p.*					
Apl. 27	...	0 52 6·78	3	4 24 36·2	R
May 3	...	52 6·65	3	24 38·1	R
16	...	52 6·24	3	24 35·8	R
16 *R. P. L.* 14—*s.p.*					
Apl. 28	...	0 55 35·50	3	3 30 58·5	R
May 9	...	55 34·84	3	31 2·2	R
17 71 *Piscium* ϵ					
Nov. 14	...	0 56 30·55	...	82 46 41·3	M
18 *β Phœnicis.*					
Dec. 12	3·7	1 0 33·14	...	137 23 0·3	M
13	3·7	0 32·87	...	23 1·8	M
14	3·7	0 32·73	...	23 1·6	M
15	3·7	0 32·74	...	23 0·9	M
19 31 *Ceti* η					
Dec. 16	4·0	1 2 21·03	...	100 50 24·4	M
20	3·9	2 21·07	...	50 24·9	M
20 43 *Andromedæ β, Mirac.*					
Dec. 19	2·6	1 2 47·56	...	55 2 15·2	M
July 21	2·3	2 47·43	...	2 14·9	M
21 *R. P. L.* 18—*s.p.*					
May 13	...	1 11 52·92	2	2 5 5·5	R
22 37 *Cassiopeiæ* δ					
Dec. 13	3·2	1 17 43·23	...	30 24 37·6	M
14	3·2	17 43·30	...	24 36·7	M
15	3·4	17 43·32	...	24 38·1	M
23 45 *Ceti* θ^1					
Dec. 20	...	1 17 49·54	...	98 49 25·2	M
21	...	17 49·38	...	49 24·1	M
22	...	17 49·36	...	49 25·9	M
24 γ *Phœnicis.*					
Dec. 16	3·4	1 22 58·66	...	133 57 15·9	M
19	3·4	22 58·65	...	57 16·2	M
29	3·3	22 58·60	...	57 15·6	M
25 δ *Phœnicis.*					
Dec. 15	4·1	1 26 4·94	...	139 43 4·5	M
20	4·4	26 5·06	...	43 3·3	M
22	4·4	26 5·12	...	43 4·4	M
26 106 *Piscium* ν					
Nov. 14	...	1 34 58·67	...	85 8 24·8	M
30	...	34 58·76	...	8 23·1	M
Dec. 12	...	34 58·66	...	8 25·7	M
13	...	34 58·82	...	8 25·2	M
15	...	34 58·76	...	8 26·2	M
18	...	34 58·73	...	8 26·1	M
21	...	34 58·65	...	8 24·9	M
27 52 *Ceti* τ					
Dec. 16	3·9	1 38 18·30	...	106 35 27·9	M
19	3·7	38 18·10	...	35 27·5	M
22	3·9	38 18·05	...	35 27·4	M
29	3·8	38 18·20	...	35 28·1	R
28 55 *Ceti* ζ					
Dec. 16	3·5	1 45 20·32	...	100 56 55·1	M
19	3·8	45 20·40	...	56 54·6	M
29	3·6	45 20·62	...	56 55·6	R
29 45 *Cassiopeiæ* ϵ					
Dec. 18	3·0	1 45 29·65	6	26 56 31·0	M
20	3·0	45 29·70	...	56 29·0	M
30 6 *Arietis β*					
Nov. 30	...	1 47 47·38	...	69 47 55·8	M
Dec. 14	...	47 47·50	...	47 57·8	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension. 1876. h. m. s.	No. of Wires.	Mean Polar Distance. 1876. ° ′ ″	Observer.
31		*χ Eridani.*			
Dec. 11	4·0	1 51 7·93 8·12	...	142 13 36·5	M
rejected 12	4·0	51 8·12	...	13 37·0	M
13	4·0	51 7·98 7·78	...	13 37·6	M
15	4·1	51 7·92 ·72	...	13 37·7	M
32		*α Hydri.*			
Dec. 16	3·0	1 54 51·99 83	...	152 10 26·9	M
19	3·1	54 51·84 71	...	10 29·5	M
29	3·0	54 51·70	...	10 26·1	R
33		57 *Andromedæ γ—1st.*			
Dec. 20	3·3	1 56 17·55	...	48 15 59·2	M
34		57 *Andromedæ γ—2nd.*			
Dec. 21	7·6	1 56 18·46	...	48 15 54·0	M
22	7·7	56 18·33	...	15 54·5	M
35		13 *Arietis α*			
Nov. 30	...	2 0 11·12	...	67 7 30·4	M
Dec. 12	...	0 11·14	...	7 31·0	M
13	...	0 11·12	...	7 31·0	M
14	...	0 11·09	...	7 30·9	M
15	...	0 11·09	...	7 31·1	M
18	...	0 11·18 20	...	7 31·3	M
36		65 *Ceti ξ*¹			
Dec. 11	5·0	2 6 25·61	...	81 44 8·8	M
37		67 *Ceti.*			
Dec. 1	...	2 10 47·90	...	96 59 40·9	M
4	...	10 47·82	...	59 40·4	M
19	...	10 47·97	...	59 40·4	M
21	...	10 47·94	...	59 38·9	M
22	...	10 47·93	...	59 40·5	M
29	...	10 47·88	...	59 42·4	R
38		*φ Eridani.*			
Dec. 12	4·2	2 12 4·76	...	142 5 11·2	M
13	4·3	12 4·67	...	5 14·7	M

Number and Date.	Magnitude.	Mean Right Ascension. 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
39		*S Persei, Var.* 4.			
Jan. 8	8·5	2 13 57·95	...	31 58 56·8	R
10	8·5	13 58·02	...	58 56·1	R
11	8·8	13 57·92	...	58 55·0	R
12	9·3	13 58·10	...	58 55·0	R
13	9·4	13 58·20	...	58 54·1	R
18	9·5	13 58·21	...	58 56·2	R
19	9·6	13 58·02	...	58 52·6	R
20	10·2	13 57·97	...	58 55·0	R
40		*Anon*			
Jan. 7	8·3	2 14 22·92	...	31 43 59·8	R
14	8·5	14 23·09	...	43 0·5	R
15	8·8	14 22·89	...	43 59·0	R
Dec. 15	8·5	14 23·01	...	43 59·6	M
41		*δ Hydri.*			
Dec. 21	4·3	2 19 33·17	...	159 13 26·3	M
29	4·0	19 32·91	...	13 28·6	R
42		73 *Ceti ξ*²			
Dec. 1	...	2 21 34·05	...	82 5 48·5	M
7	...	21 33·96	...	5 48·1	M
14	...	21 33·98	...	5 49·2	M
18	...	21 33·85	5	5 49·8	M
20	...	21 33·96	...	5 48·5	M
22	...	21 34·07	...	5 48·3	M
43		82 *Ceti δ*			
Dec. 11	4·7	2 33 7·64	...	90 12 27·1	M
12	4·6	33 7·58	...	12 28·1	M
13	4·4	33 7·56	...	12 28·2	M
14	4·6	33 7·46	...	12 27·4	M
44		*ι Eridani.*			
Dec. 15	4·4	2 35 45·85	...	130 23 14·1	M
18	4·3	35 46·29	...	23 14·8	M
29	4·0	35 46·06	...	23 12·7	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
45		86 *Ceti* γ			
Jan. 4	...	2 36 52·60	...	87 17 16·5	R
8	...	36 52·59	...	17 17·8	R
20	...	36 52·61	...	17 16·1	R
Dec. 1	...	36 52·50	...	17 16·6	M
4	...	36 52·62	...	17 16·4	M
5	...	36 52·56	...	17 16·0	M
6	...	36 52·54	...	17 16·7	M
7	...	36 52·68	...	17 16·9	M
8	...	36 52·52	...	17 15·8	M
16	...	36 52·60	...	17 16·4	M
46		89 *Ceti* π			
Dec. 20	4·6	2 38 13·36	...	104 23 3·4	M
22	4·4	38 13·16	...	23 4·7	M
47		41 *Arietis.*			
Dec. 11	3·0	2 42 41·24	...	63 15 2·8	M
19	...	42 41·24	...	15 4·3	M
48		3 *Eridani* η			
Dec. 13	3·9	2 50 22·03	...	99 23 33·6	M
16	3·9	50 22·27	...	23 33·1	M
21	4·0	50 21·98	...	23 32·1	M
49		*θ Eridani*—1*st.*			
Dec. 15	3·7	2 53 33·37	...	130 48 9·9	M
18	3·5	53 33·44	...	48 10·8	M
20	3·5	53 33·56	...	48 9·3	R
50		*θ Eridani*—2*nd.*			
Dec. 19	5·9	2 53 34·45	...	130 48 9·4	M
20	...	53 34·34	...	48 7·6	M
22	5·9	53 34·20	...	48 8·6	M

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ″	Observer.
51		92 *Ceti a, Menkar.*			
Jan. 4	...	2 55 47·88	...	86 23 50·9	R
5	...	55 47·93	...	23 51·7	R
11	...	55 47·91	...	23 51·6	R
20	...	55 47·83	...	23 50·7	R
Dec. 4	...	55 47·88	...	23 52·1	M
5	...	55 47·91	...	23 50·9	M
6	...	55 47·94	...	23 52·3	M
8	...	55 47·87	...	23 50·8	M
52		11 *Eridani* τ^3			
Dec. 11	4·7	2 56 55·37	...	114 6 48·0	M
12	4·5	56 55·45	...	6 42·7	M
14	4·7	56 55·28	...	6 43·6	M
53		*R. P. L.* 33.			
Jan. 8	...	3 3 16·79	3	5 32 2·0	R
		R. P. L. 33—*s.p.*			
Apl. 29	...	3 3 ~~16·77~~ 17·14	3	5 32 0·9	R
May 1	...	3 ~~16·41~~ 17·33	3	32 3·3	R
12	...	3 ~~16·67~~ 17·49	3	32 3·9	R
54		57 *Arietis* δ			
Jan. 5	...	3 4 32·40	..	70 44 37·3	R
7	...	4 32·44	...	44 37·4	R
10	...	4 32·35	...	44 38·4	R
19	...	4 32·43	...	44 38·5	R
Dec. 6	...	4 32·38	...	44 39·5	M
7	...	4 32·36	...	44 38·9	M
8	...	4 32·48	...	44 40·3	M
16	...	4 32·45	...	44 35·7	M
19	...	4 32·24	...	44 37·3	M
55		12 *Eridani.*			
Dec. 11	...	3 6 48·28	...	119 28 37·3	M
12	3·7	6 48·35	...	28 37·3	M
13	3·8	6 48·11	...	28 37·3	M
14	3·9	6 48·09	...	28 38·3	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
56		13 *Eridani* ζ			
Dec. 21	4·3	3 9 48·58	...	99 16 53·0	M
22	4·5	9 48·51	...	16 53·7	M
29	4·0	9 48·46	...	16 53·5	R
57		16 *Eridani* τ^4			
Dec. 29	3·3	3 13 59·84	...	112 12 38·7	R
58		*R. P. L.* 34.			
Jan. 4	...	3 26 3·29	3	3 44 53·6	R
15	...	26 4·11	3	44 54·9	R
Dec. 4	...	26 3·95	3	44 55·3	M
6	...	26 3·77	3	44 54·3	M
12	...	26 3·99	3	44 54·8	M
59		18 *Eridani* ε			
Dec. 21	4·0	3 27 5·32	...	99 52 45·0	M
60		19 *Eridani* τ^5			
Dec. 29	3·9	3 28 18·61	...	112 2 59·9	R
61		23 *Eridani* δ			
Dec. 29	3·5	3 37 18·47	...	100 11 4·4	R
62		25 *Tauri* η, *Alcyone.*			
Jan. 5	...	3 40 6·88	...	66 16 46·8	R
6	...	40 6·90	...	16 47·0	R
12	...	40 6·93	...	16 48·5	R
13	...	40 7·03	...	16 48·1	R
18	...	40 6·84	...	16 49·9	R
Dec. 5	...	40 6·87	...	16 48·5	M
11	...	40 6·99	...	16 48·8	M
19	...	40 7·01	...	16 49·2	M
63		υ^2 *Eridani.*			
Dec. 18	4·2	3 44 48·92	...	126 34 37·2	M
29	4·0	44 48·74	...	34 36·5	R

Number and Date.	Magnitude.	Mean Right Ascension. 1876. h. m. s.	No. of Wires.	Mean Polar Distance. 1876. ° ′ ″	Observer.
64		34 *Eridani* γ^1			
Jan. 4	...	3 52 14·59	...	103 51 45·2	R
6	...	52 14·57	...	51 45·5	R
10	...	52 14·68	...	51 47·1	R
12	...	52 14·56	...	51 46·8	R
14	...	52 14·66	...	51 45·8	R
15	...	52 14·63	...	51 47·2	R
19	...	52 14·63	...	51 45·9	R
22	...	52 14·63	...	51 46·5	R
31	...	52 14·57	...	51 43·5	R
Dec. 13	...	52 14·46	...	51 46·3	M
20	...	52 14·58	...	51 44·7	M
65		*R. P. L.* 35.			
Jan. 13	...	3 58 15·71	3	4 46 29·5	R
28	...	58 15·56	3	46 29·4	R
Dec. 29	...	58 15·19	3	46 31·4	R
		R. P. L. 35—*s.p.*			
May 17	...	3 58 14·91	3	4 46 31·8	R
20	...	58 14·79	3	46 30·6	R
22	...	58 14·33	3	46 32·7	R
25	...	58 14·87	3	46 31·2	R
26	...	58 14·62	3	46 29·5	R
June 14	...	58 16·12	3	46 32·2	M
66		*Lalande* 7655.			
Jan. 4	8·0	4 1 7·69	...	70 35 42·3	R
5	8·2	1 7·77	...	35 42·4	R
67		38 *Eridani* o^1			
Jan. 7	...	4 5 48·72	...	97 9 44·8	R
11	...	5 48·67	...	9 44·8	R
13	...	5 48·62	...	9 45·0	R
17	...	5 48·87	...	9 46·4	R
Dec. 29	...	5 48·72	...	9 45·2	R
68		γ *Doradus.*			
Dec. 29	4·0	4 12 46·58	...	141 47 59·5	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
69		41 *Eridani* v^4			
Dec. 19	4·0	4 13 12·85	...	124 6 8·5	M
70		*T Tauri, Var.* 6.			
Jan. 5	10·0	4 14 45·53	...	70 45 42·8	R
6	10·0	14 45·53	...	45 41·9	R
7	10·0	14 45·62	...	45 40·1	R
8	10·0	14 45·65	...	45 42·0	R
10	10·0	14 45·61	...	45 41·6	R
11	10·0	14 45·53	...	45 41·0	R
71		43 *Eridani* v^5			
Dec. 29	4·0	4 19 22·45	5	124 18 20·9	R
72		74 *Tauri* ϵ			
Jan. 6	...	4 21 22·64	...	71 5 46·4	R
8	...	21 22·52	...	5 48·7	R
17	...	21 22·52	...	5 47·2	R
20	...	21 22·61	...	5 46·8	R
Dec. 9	...	21 22·73	...	5 47·6	M
12	...	21 22·58	...	5 48·4	M
15	...	21 22·54	...	5 49·6	M
73		87 *Tauri* α, *Aldebaran.*			
Jan. 7	...	4 28 48·36	...	73 44 31·2	R
17	...	28 48·31	...	44 32·1	R
22	...	28 48·46	...	44 32·6	R
Dec. 9	...	28 48·36	...	44 32·4	M
11	...	28 48·32	...	44 32·2	M
74		α *Doradus.*			
Dec. 20	3·7	4 31 18·93	...	145 18 8·4	M
21	3·8	31 19·10	...	18 6·0	M
75		3 *Aurigæ* ι			
Jan. 8	...	4 48 55·19	...	57 1 58·0	R
12	...	48 55·21	...	1 57·4	R
14	...	48 55·19	...	1 57·0	R
Jan. 18	...	4 48 55·12	...	57 1 57·6	R
19	...	48 55·13	...	1 58·5	R
28	...	48 55·21	...	1 56·0	R
Feb. 2	...	48 55·19	...	1 56·1	M
7	...	48 55·33	...	1 56·5	M
76		*Anon.*			
Nov. 27	8·7	4 50 49·16	...	71 8 11·5	M
30	8·7	50 49·22	...	8 9·1	M
Dec. 1	8·8	50 49·07	...	8 11·3	M
4	8·7	50 49·28	...	8 11·3	M
6	8·6	50 49·41	...	8 11·1	M
77		*Anon.*			
Dec. 7	9·0	4 52 26·65	...	71 22 44·6	M
8	9·2	52 26·84	...	22 45·1	M
9	9·1	52 26·95	...	22 45·2	M
12	9·1	52 26·88	...	22 45·7	M
13	9·2	52 26·75	...	22 44·1	M
78		2 *Leporis* ϵ			
Jan. 10	...	5 0 12·66	...	112 32 22·1	R
11	...	0 12·71	...	32 21·2	R
15	...	0 12·75	...	32 21·8	R
28	...	0 12·63	...	32 20·2	R
Feb. 2	...	0 12·62	...	32 20·1	M
Dec. 11	...	0 12·67	...	32 21·3	M
29	...	0 12·66	...	32 22·4	R
79		μ *Doradus, Var.* 1.			
Dec. 13	9·6	5 5 53·30	...	151 57 57·2	M
14	9·5	5 53·20	...	57 59·7	M
18	9·7	5 53·89	...	57 56·4	M
80		19 *Orionis* β, *Rigel.*			
Jan. 14	...	5 8 34·63	...	98 20 47·4	R
18	...	8 34·82	...	20 47·5	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
81		24 *Orionis* γ			
Dec. 19	1·9	5 18 28·63	...	83 45 52·9	M
21	2·0	18 28·71	...	45 50·3	M
29	1·7	18 28·67	...	45 51·1	R
82		*R. P. L.* 40.			
Jan. 22	...	5 22 26·74	3	4 52 22·3	R
31	...	22 27·18	3	52 21·4	R
Feb. 2	...	22 27·74	3	52 22·2	M
7	...	22 28·05	3	52 21·6	M
14	...	22 27·82	3	52 20·4	M
83		*S Orionis, Var.* 4.			
Jan. 7	9·2	5 22 53·40	...	94 47 40·9	R
8	9·3	22 53·38	...	47 41·6	R
10	9·5	22 53·64	4	47 39·8	R
11	9·8	22 53·23	...	47 39·2	R
12	10·1	22 53·29	...	47 38·7	R
13	10·2	22 53·20	...	47 38·0	R
14	10·1	22 53·16	...	47 37·7	R
15	10·0	22 53·12	...	47 37·4	R
17	10·1	22 53·17	...	47 37·7	R
18	10·3	22 53·22	...	47 38·0	R
84		9 *Leporis* β			
Dec. 18	4·3	5 22 55·92	...	110 51 35·9	M
22	4·3	22 55·84	...	51 35·8	M
85		34 *Orionis* δ, *Var.* 1.			
Dec. 9	...	5 25 40·32	...	90 23 32·7	M
86		ε *Columbæ.*			
Dec. 20	4·3	5 26 48·50	...	125 33 44·8	M
87		11 *Leporis* α			
Jan. 28	...	5 27 15·69	...	107 54 45·0	R
Dec. 16	...	27 15·68	...	54 44·8	M
88		44 *Orionis* ι—1*st.*			
Dec. 29	...	5 29 21·76	...	95 59 36·1	R
89		46 *Orionis* ε			
Jan. 13	...	5 29 55·23	...	91 16 58·6	R
15	...	29 55·16	...	16 58·7	R
22	...	29 55·16	...	16 59·8	R
31	...	29 55·24	...	16 57·5	R
90		48 *Orionis* σ—1*st.*			
Dec. 19	4·4	5 32 31·10	...	92 40 25·6	M
91		*R. P. L.* 42—*s.p.*			
July 29	...	5 32 57·63	3	2 41 10·3	R
31	...	32 58·46	3	41 12·2	R
Aug. 1	...	32 58·54	3	41 12·5	R
3	...	32 57·66	3	41 10·5	R
4	...	32 58·46	3	41 12·1	R
26	...	32 58·04	7	41 10·5	R
92		α *Columbæ.*			
Feb. 2	...	5 35 9·71	...	124 8 28·9	M
7	...	35 9·47	...	8 28·5	M
14	...	35 9·72	...	8 28·6	M
93		53 *Orionis* κ			
Dec. 29	2·6	5 41 52·40	...	99 42 55·4	R
94		β *Columbæ.*			
Dec. 21	3·0	5 46 35·22	...	125 48 58·1	M
22	3·3	46 35·13	...	48 59·6	M
95		58 *Orionis* α, *Var.* 2, *Betelgeux.*			
Jan. 31	...	5 48 27·60	...	82 37 3·1	R
Feb. 7	...	48 27·53	...	37 3·5	M
14	...	48 27·50	...	37 3·1	M
21	...	48 27·50	...	37 3·0	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
96	34 *Aurigæ* ,3				
Dec. 29	1·8	5 50 25·63	...	46 4 4·2	R
97	*R. P. L.* 43—*s.p.*				
June 17	...	5 57 21·37	2	8 14 15·9	M
98	67 *Orionis* ν				
Feb. 14	...	6 0 29·49	...	75 13 6·0	M
21	...	0 29·59	...	13 6·3	M
99	*T Monocerotis, Var.* 3.				
Jan. 5	6·3	6 18 30·78	...	82 50 55·3	R
6	6·1	18 30·85	...	50 54·6	R
7	6·0	18 31·03	...	50 54·4	R
8	6·2	18 31·04	...	50 56·3	R
10	6·4	18 31·11	...	50 55·7	R
11	6·8	18 31·03	...	50 55·0	R
12	7·0	18 31·12	...	50 55·1	R
13	7·0	18 31·14	...	50 55·2	R
14	7·0	18 31·13	...	50 54·1	R
15	7·0	18 31·11	...	50 52·2	R
100	24 *Geminorum* γ				
Mar. 6	...	6 30 32·88	...	73 29 49·0	R
101	51 *Cephei* (*Hev.*).				
Feb. 21	...	6 41 46·00	3	2 45 58·4	M
28	...	41 46·10	3	45 58·5	M
102	23 *Canis Majoris* γ				
Feb. 21	...	6 58 8·90	...	105 27 5·4	M
103	66 *Geminorum* a^2, *Castor.*				
Feb. 28	...	7 26 41·14	...	57 50 30·3	M
Mar. 13	...	26 41·27	...	50 29·7	R
104	*R. P. L.* 45—*s.p.*				
Aug. 21	...	7 30 12·92	2	1 0 32·5	R

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
105	10 *Canis Minoris* α, *Procyon.*				
Feb. 28	...	7 32 48·43	...	84 27 29·4	M
Mar. 6	...	32 48·59	...	27 30·3	R
13	...	32 48·54	...	27 29·4	R
106	78 *Geminorum* β, *Pollux.*				
Feb. 28	...	7 37 43·84	...	61 40 34·3	M
Mar. 13	...	37 43·59	...	40 33·9	R
107	*R. P. L.* 49.				
Mar. 6	...	7 46 59·36	3	5 35 25·5	R
	R. P. L. 49—*s.p.*				
Sep. 18	...	7 46 58·38	3	5 35 26·4	R
108	6 *Cancri.*				
Mar. 6	...	7 55 54·01	...	61 51 34·8	R
20	...	55 53·98	...	51 33·6	R
109	15 *Argus* ι				
Mar. 20	...	8 2 15·74	...	113 56 50·9	R
27	...	2 15·77	...	56 52·1	R
110	*Anon.*				
Mar. 27	9·5	8 13 20·62	...	131 19 26·8	R
28	9·5	13 20·64	...	19 23·4	R
29	9·3	13 20·59	..	19 25·8	R
30	9·3	13 20·64	...	19 23·0	R
111	33 *Cancri* η				
Mar. 28	...	8 25 32·17	...	69 8 19·9	R
112	11 *Hydræ* ε				
Mar. 20	...	8 40 12·55	...	83 7 36·8	R
27	...	40 12·52	...	7 36·9	R
30	...	40 12·49	...	7 36·7	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
113		*R. P. L.* 60.			
Mar. 18	...	8 49 6·91	3	5 19 34·0	R
27	...	49 7·99	3	19 34·6	R
		R. P. L. 60—*s.p.*			
Sep. 14	...	8 49 7·05	3	5 19 36·5	R
Oct. 19	...	49 8·07	3	19 33·4	M
21	...	49 7·75	3	19 33·3	M
23	...	49 7·76	3	19 36·0	M
30	...	49 7·80	3	19 35·5	M
31	...	49 7·98	3	19 34·0	M
114		83 *Cancri*.			
Mar. 27	...	9 12 3·48	...	71 46 10·5	R
29	...	12 3·42	...	46 12·2	R
31	...	12 3·52	...	46 12·2	R
115		30 *Hydræ a, Var.* 2.			
Mar. 28	...	9 21 29·55	...	98 7 18·7	R
29	...	21 29·47	...	7 18·6	R
31	...	21 29·61	...	7 18·4	R
116		*R. P. L.* 69.			
Mar. 30	...	9 36 41·77	3	2 49 58·7	R
		R. P. L. 69—*s.p.*			
Oct. 10	...	9 36 40·76	3	2 50 0·6	R
117		17 *Leonis* ϵ			
Mar. 28	...	9 38 48·64	...	65 39 20·6	R
31	...	38 48·57	...	39 20·9	R
Apl. 17	...	38 48·65	...	39 21·4	R
118		*R. P. L.* 70.			
Apl. 19	...	9 48 26·30	3	5 29 8·6	R
Sep. 6	...	9 48 25·50	3	5 29 8·8	R
29	...	48 26·07	3	29 11·2	R
Oct. 13	...	48 25·16	3	29 12·2	R
Nov. 2	...	48 26·27	3	29 10·9	M
3	...	48 26·74	3	29 10·7	M
		R. P. L. 70—*s.p.*			
119		29 *Leonis* π			
Apl. 17	...	9 53 39·49	...	81 21 41·5	R
120		32 *Leonis a, Regulus*.			
Mar. 29	...	10 1 45·87	...	77 25 38·4	R
30	...	1 46·04	...	25 38·3	R
121		*R. P. L.* 72.			
Mar. 28	...	10 11 18·61	3	5 7 11·4	R
29	...	11 18·97	3	7 11·5	R
Apl. 3	...	11 19·26	3	7 11·5	M
17	...	11 18·51	3	7 10·8	M
		R. P. L. 72—*s.p.*			
Sep. 25	...	10 11 19·22	3	5 7 12·2	R
122		41 *Leonis* γ^1			
Mar. 30	...	10 13 7·99	...	69 31 55·2	R
Apl. 19	...	13 7·98	...	31 54·5	R
123		47 *Leonis* ρ			
Apl. 20	...	10 26 16·86	...	80 3 18·7	R
124		53 *Leonis l.*			
Apl. 3	...	10 42 44·31	...	78 47 56·1	M
10	...	42 44·37	...	47 55·5	M
17	...	42 44·33	...	47 55·5	R
19	...	42 44·27	...	47 53·3	R
21	...	42 44·24	...	47 54·2	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
125		63 *Leonis* χ			
Apl. 19	...	10 58 37·21	...	81 59 37·2	R
20	...	58 37·21	...	59 37·2	R
126		68 *Leonis* δ			
Apl. 10	...	11 7 30·62	...	68 47 48·8	M
21	...	7 30·72	...	47 48·6	R
127		12 *Crateris* δ			
Apl. 3	...	11 13 8·53	...	104 6 27·0	M
20	...	13 8·51	...	6 26·9	R
22	...	13 8·47	...	6 27·9	R
24	...	13 8·58	...	6 26·9	R
128		91 *Leonis* υ			
Apl. 3	...	11 30 35·99	...	90 8 20·2	M
22	...	30 35·92	...	8 19·8	R
129		*Anon.*			
Mar. 27	8·4	11 33 41·45	...	144 18 33·9	R
28	8·5	33 41·48	...	18 34·5	R
29	8·4	33 41·42	...	18 33·1	R
30	8·5	33 41·39	...	18 33·6	R
130		94 *Leonis* β, *Deneb.*			
Apl. 21	...	11 42 44·04	...	74 44 5·9	R
22	...	42 44·07	...	44 6·1	R
24	...	42 43·99	...	44 4·3	R
131		*R. P. L.* 89.			
Apl. 21	...	11 58 29·56	3	3 43 32·4	R
		R. P. L. 89—*s.p.*			
Nov. 27	...	11 58 30·69	3	3 43 32·8	M
132		2 *Corvi* ϵ			
Apl. 24	...	12 3 44·94	...	111 55 46·6	R
28	...	3 44·93	...	55 47·3	R

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
133		15 *Virginis* η			
Apl. 10	...	12 13 33·71	...	89 58 37·4	M
27	...	13 33·71	...	58 36·9	R
134		*Anon.*			
Apl. 19	9·6	12 15 52·30	...	90 46 17·0	R
20	9·6	15 52·33	...	46 17·0	R
21	9·9	15 52·21	...	46 16·2	R
22	9·7	15 52·20	...	46 17·0	R
24	9·6	15 52·26	...	46 16·3	R
135		9 *Corvi* β			
May 3	...	12 27 52·41	...	112 42 37·4	R
136		*R. P. L.* 98.			
Apl. 24	...	12 48 6·90	3	5 54 27·0	R
137		*R. P. L.* 99.			
Apl. 28	...	12 48 16·54	3	5 54 45·9	R
138		51 *Virginis* θ			
Apl. 27	...	13 3 31·77	...	94 52 34·3	R
29	...	3 31·78	...	52 33·7	R
May 1	...	3 31·77	...	52 34·4	R
9	...	3 31·79	...	52 33·8	R
12	...	3 31·83	...	52 33·2	R
16	...	3 31·81	...	52 32·8	R
139		67 *Virginis* α, *Spica.*			
Apl. 29	...	13 18 39·71	...	100 30 47·1	R
140		*R. P. L.* 103.			
Apl. 27	...	13 19 42·76	3	4 35 52·1	R
May 3	...	19 42·85	3	35 52·2	R
16	...	19 42·55	3	35 51·3	R
		R. P. L. 103—*s.p.*			
Dec. 18	...	13 19 43·04	3	4 35 52·2	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
141		*79 Virginis ζ*			
Apl. 28	...	13 28 22·55	...	89 57 38·5	R
May 1	...	28 22·56	...	57 39·1	R
9	...	28 22·55	...	57 39·1	R
13	...	28 22·55	...	57 38·0	R
142		*8 Bootis η*			
Apl. 28	...	13 48 46·90	...	70 58 47·0	R
May 3	...	48 46·79	...	58 45·7	R
9	...	48 46·87	...	58 46·0	R
12	...	48 46·86	...	58 45·8	R
16	...	48 46·85	...	58 44·5	R
143		*93 Virginis τ*			
Apl. 27	...	13 55 20·23	...	87 51 15·0	R
29	...	55 20·18	...	51 15·1	R
May 3	...	55 20·26	...	51 14·6	R
12	...	55 20·15	...	51 14·1	R
13	...	55 20·23	...	51 14·3	R
17	...	55 20·15	...	51 15·4	R
20	...	55 20·28	...	51 13·6	R
144		*R. P. L.* 108.			
Apl. 29	...	14 2 22·54	3	3 38 54·3	R
May 9	...	2 24·87	3	38 52·9	R
13	...	2 22·06	3	38 51·9	R
145		*16 Bootis α, Arcturus.*			
May 1	...	14 10 0·37	...	70 10 16·7	R
16	...	10 0·36	...	10 15·0	R
17	...	10 0·40	...	10 15·2	R
23	...	10 0·27	...	10 15·1	R
June 2	...	10 0·27	...	10 17·1	M
146		*25 Bootis ρ*			
June 2	...	14 26 29·23	...	59 5 0·2	M
5	...	26 29·09	...	4 59·1	M

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
147		*R Camelopardi, Var.* 1.			
Apl. 27	9·0	14 27 7·71	3	5 36 23·1	R
29	8·9	27 7·76	...	36 22·7	R
May 1	9·0	27 7·19	...	36 24·0	R
3	...	27 7·57	3	36 24·1	R
12	9·7	27 7·42	...	36 21·1	R
13	9·9	27 7·31	...	36 22·1	R
148		*36 Bootis ε, Mirac.*			
May 20	...	14 39 34·10	...	62 24 6·3	R
25	...	39 34·30	...	24 6·2	R
149		*9 Libræ a^2*			
May 13	...	14 44 1·18	...	105 31 30·0	R
17	...	44 1·23	...	31 29·8	R
22	...	44 1·27	...	31 28·7	R
26	...	44 1·24	...	31 30·2	R
June 2	...	44 1·26	...	31 31·3	M
5	...	44 1·30	...	31 30·9	M
6	...	44 1·29	...	31 30·1	M
July 10	...	44 1·21	...	31 32·3	R
150		*W. B. E.* XIV. 896.			
Apl. 28	8·9	14 48 59·99	...	102 42 5·0	R
29	8·9	49 0·03	...	42 5·7	R
May 1	8·9	49 0·04	...	42 4·8	R
3	...	49 0·04	...	42 5·2	R
9	8·9	49 0·09	...	42 4·5	R
151		*Anon.*			
Apl. 27	9·4	14 55 48·07	2	104 0 58·8	R
28	9·2	55 48·21	...	0 59·2	R
29	9·2	55 48·23	...	0 59·1	R
May 1	9·4	55 48·18	...	0 59·7	R
9	9·5	55 48·47	...	0 57·3	R
152		*43 Bootis ψ*			
May 26	...	14 59 8·04	...	62 34 4·8	R
June 6	...	59 7·84	...	34 2·6	M

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
153		*R. P. L.* 111.			
May 17	...	15 4 20·26	3	5 34 14·2	R
20	...	4 20·15	3	34 14·1	R
		R. P. L. 111—*s.p.*			
Jan. 4	...	15 4 21·69	3	5 34 12·4	R
13	...	4 21·10	3	34 12·7	R
Dec. 15	...	4 21·85	2	34 8·7	M
20	...	4 22·16	2	34 11·1	M
154		27 *Libræ* β			
May 20	...	15 10 20·20	...	98 55 24·5	R
22	...	10 20·19	...	55 23·8	R
25	...	10 20·12	...	55 25·1	R
June 8	...	10 20·04	...	55 26·5	M
155		*R. P. L.* 114.			
May 12	...	15 17 ~~56·16~~ 57·91	3	2 17 34·6	R
22	...	17 53·95	3	17 35·8	R
25	...	17 54·75	3	17 36·1	R
26	...	17 54·49	3	17 35·0	R
June 14	...	17 55·74	3	17 36·4	M
		R. P. L. 114—*s.p.*			
Jan. 8	...	15 17 56·42	3	2 17 37·8	R
156		5 *Coronæ Borealis* α, *Alpheta.*			
May 26	...	15 29 26·25	...	62 51 59·6	R
June 5	...	29 26·33	...	52 0·3	M
6	...	29 26·38	...	51 59·0	M
8	...	29 26·37	...	52 0·8	M
157		24 *Serpentis* α			
May 25	...	15 38 9·62	...	83 10 58·2	R
June 17	...	38 9·58	...	10 59·1	M
July 10	...	38 9·64	...	10 55·7	R
158		*R Serpentis, Var.* 2.			
May 13	8·0	15 44 58·61°	...	74 29 18·7	R
16	8·1	44 58·61°	...	29 17·9	R
17	8·1	44 58·56	...	29 18·1	R
20	8·4	44 58·46	...	29 18·4	R
22	8·8	44 58·48	...	29 18·3	R
159		*R. P. L.* 115—*s.p.*			
Jan. 15	...	15 46 36·27	3	4 46 5·5	R
28	...	46 34·36	3	46 4·3	R
Dec. 4	...	46 36·06	3	46 8·5	M
6	...	46 35·95	3	46 7·0	M
160		8 *Scorpii* β^1			
June 27	...	15 58 13·70	...	109 27 51·5	M
161		*R. P. L.* 116—*s.p.*			
Jan. 22	...	16 2 13·98	3	4 20 42·5	R
31	...	2 14·35	3	20 42·1	R
Nov. 30	...	2 14·20	2	20 45·2	M
Dec. 12	...	2 15·33	3	20 41·9	M
162		1 *Ophiuchi* δ			
June 14	...	16 7 50·80	...	93 22 24·5	M
27	...	7 50·82	...	22 25·9	M
July 5	...	7 50·86	...	22 25·4	R
10	...	7 50·86	...	22 24·5	R
163		21 *Scorpii* α, *Antares.*			
June 17	...	16 21 48·45	...	116 9 18·2	M
27	...	21 48·41	...	9 17·7	M
July 5	...	21 48·37	...	9 18·2	R
164		40 *Herculis* ζ			
June 14	...	16 36 36·71	4	58 10 17·1	M
17	...	36 36·75	...	10 18·0	M
July 5	...	36 36·74	...	10 17·9	R
19	...	36 36·68	...	10 17·6	R
29	...	36 36·73	...	10 16·1	R
Aug. 1	...	36 36·68	...	10 15·3	R

58·60
60

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
165		*Anon.*			
May 25	7·0	16 42 29·86	...	138 53 53·7	R
26	7·0	42 29·81	...	53 53·8	R
June 6	7·5	42 29·92	...	53 56·6	M
166		27 *Ophiuchi* κ			
June 8	...	16 51 47·90	...	80 25 51·1	M
14	...	51 47·92	...	25 48·6	M
July 20	...	51 48·01	...	25 48·0	R
167		*T Serpentis, Var.* 4.			
July 29	10·5	16 54 40·83	...	110 19 47·5	R
31	10·5	54 40·91	...	19 46·9	R
Aug. 1	10·5	54 41·11	...	19 45·2	R
2	10·5	54 41·08	...	19 45·4	R
3	10·5	54 41·11	...	19 43·6	R
4	10·6	54 40·88	...	19 44·3	R
7	10·6	54 40·85	...	19 46·1	R
12	10·8	54 40·89	...	19 45·6	R
14	10·8	54 40·84	...	19 43·5	R
15	10·8	54 40·71	...	19 46·4	R
168		22 *Ursæ Minoris* ϵ—*s.p.*			
Feb. 7	...	16 58 45·11	3	7 45 43·2	M
169		*R Ophiuchi, Var.* 2.			
June 27	8·6	17 0 38·81	...	105 55 31·9	M
July 19	8·3	0 38·87	...	55 32·6	R
20	8·6	0 38·89	5	55 32·3	R
22	...	0 38·75	...	55 31·2	R
170		*Anon.*			
June 14	8·7	17 7 4·60	...	137 25 57·0	M
17	8·8	7 4·50	...	25 57·6	M
171		64 *Herculis a, Var.* 1.			
July 19	...	17 8 59·63	...	75 27 59·7	R
22	...	8 59·67	...	27 58·9	R
29	...	8 59·51	...	27 58·7	R
31	...	8 59·67	...	27 59·6	R
Aug. 1	...	17 8 59·62	...	75 27 58·4	R
3	...	8 59·67	...	27 58·8	R
7	...	8 59·66	...	27 57·7	R
12	...	8 59·62	...	27 58·3	R
15	...	8 59·75	...	27 59·8	R
172		42 *Ophiuchi* θ			
July 22	...	17 14 23·69	...	114 52 24·5	R
31	...	14 23·72	...	52 25·9	R
Aug. 2	...	14 23·83	...	52 23·8	R
4	...	14 23·62	...	52 25·1	R
173		55 *Ophiuchi a*			
June 14	...	17 29 10·74	...	77 20 52·0	M
July 19	...	29 10·74	...	20 52·9	R
20	...	29 10·72	...	20 52·6	R
22	...	29 10·68	...	20 52·5	R
Aug. 2	...	29 10·65	...	20 51·8	R
7	...	29 10·74	...	20 49·7	R
10	...	29 10·69	...	20 52·3	R
12	...	29 10·70	...	20 51·3	R
174		86 *Herculis* μ			
July 20	...	17 41 36·31	...	62 12 19·0	R
31	...	41 36·29	...	12 20·2	R
Aug. 2	...	41 36·25	...	12 18·8	R
3	...	41 36·27	...	12 18·9	R
7	...	41 36·27	...	12 16·4	R
10	...	41 36·35	...	12 19·3	R
14	...	41 36·33	...	12 19·3	R
175		13 *Sagittarii* μ^1			
July 29	...	18 6 20·91	...	111 5 19·6	R
Aug. 1	...	6 20·85	...	5 20·5	R
14	...	6 20·69	...	5 20·1	R
176		*Anon.*			
Aug. 3	8·2	18 6 52·12	...	121 25 2·4	R
4	8·5	6 51·89	...	25 0·6	R
7	8·5	6 52·01	...	25 0·7	R
10	...	6 51·98	...	25 0·7	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
177		*Anon.*			
June 17	9·4	18 8 52·49	...	122 24 33·5	M
July 19	9·4	8 52·70	...	24 31·1	R
22	...	8 52·62	...	24 31·9	R
Aug. 12	9·9	8 52·68	...	24 31·8	R
178		23 *Ursæ Minoris* δ			
Aug. 1	...	18 12 17·95	3	3 23 29·9	R
26	...	12 18·76	3	23 31·5	R
		23 *Ursæ Minoris* δ—*s.p.*			
Feb. 2	...	18 12 20·68	3	3 23 31·6	M
14	...	12 20·69	3	23 32·2	M
21	...	12 20·38	3	23 30·9	M
Dec. 29	...	12 19·13	3	23 31·5	R
179		24 *Ursæ Minoris.*			
July 29	...	18 16 39·82	2	3 0 47·7	R
Aug. 3	...	16 39·99	3	0 47·8	R
4	...	16 40·81	3	0 45·3	R
180		*Anon.*			
July 31	10·5	18 30 10·78	...	136 55 4·7	R
Aug. 1	10·5	30 10·62	...	55 2·6	R
181		3 *Lyræ a, Vega.*			
Aug. 12	..	18 32 44·35	...	51 19 49·3	R
15	...	32 44·29	...	19 50·5	R
182		10 *Lyræ β, Var.* 1.			
Aug. 18	...	18 45 30·09	...	56 46 48·4	R
21	...	45 30·12	...	46 48·3	M
183		*R. P. L.* 131.			
June 17	...	18 55 12·10	2	3 27 0·4	M
July 31	...	55 10·64	3	26 59·3	R
Aug. 21	...	55 12·03	3	27 0·5	M
		R. P. L. 131—*s.p.*			
Feb. 28	...	18 55 12·11	3	3 27 1·9	M
Mar. 6	...	55 11·84	3	27 1·9	R
184		17 *Aquilæ* ζ			
Aug. 3	...	18 59 42·58	...	76 19 8·9	R
4	...	59 42·59	...	19 8·6	R
10	...	59 42·55	...	19 9·7	R
15	..	59 42·49	...	19 10·2	R
16	...	59 42·56	...	19 8·8	R
18	...	59 42·53	...	19 10·2	R
26	...	59 42·55	...	19 11·1	R
185		25 *Aquilæ* ω			
Aug. 14	...	19 11 59·81	...	78 37 34·5	R
16	...	11 59·74	...	37 35·1	R
21	...	11 59·68	...	37 34·9	M
186		30 *Aquilæ* δ			
Aug. 16	...	19 19 14·64	...	87 7 49·5	R
26	...	19 14·64	...	7 51·1	R
Sep. 6	...	19 14·67	...	7 50·0	R
187		52 *Sagittarii* h^2			
Aug. 4	...	19 29 9·53	...	115 9 16·6	R
18	...	29 9·54	...	9 18·2	R
26	...	29 9·54	...	9 19·6	R
Sep. 14	...	29 9·41	...	9 17·7	R
188		50 *Aquilæ* γ			
Sep. 14	...	19 40 21·91	...	79 41 14·3	R
20	...	40 21·82	...	41 11·6	R
189		11 *Vulpeculæ, Var.* 1.			
Aug. 4	10·5	19 42 35·43	...	62 59 11·9	R
7	10·5	42 35·44	...	59 8·9	R
10	...	42 35·51	4	59 9·4	R
12	10·6	42 35·42	...	59 8·7	R
15	...	42 35·58	3	59 11·0	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
Aug. 16	10·7	19 42 35·47	...	62 59 8·5	R
18	10·9	42 35·47	...	59 12·7	R
Sep. 6	10·8	42 35·68	...	59 10·3	R
7	10·9	42 35·54	...	59 11·4	R
190	53 *Aquilæ a, Altair.*				
Sep. 28	...	19 44 44·01	...	81 27 26·4	R
191	60 *Aquilæ β*				
Sep. 6	...	19 49 13·41	...	83 54 3·7	R
20	...	49 13·38	...	54 2·8	R
192	6 *Capricorni* a^2				
Sep. 6	...	20 11 10·25	...	102 55 38·1	R
7	...	11 10·37	...	55 40·2	R
18	...	11 10·42	...	55 40·4	R
22	...	11 10·37	...	55 40·2	R
26	...	11 10·44	...	55 39·0	R
193	*X Capricorni, Var.* 7.				
Sep. 18	10·4	20 15 38·93	...	106 24 16·2	R
19	10·5	15 38·92	...	24 16·1	R
20	10·8	15 38·93	...	24 15·4	R
22	10·6	15 38·90	...	24 17·4	R
23	10·6	15 39·01	...	24 17·5	R
25	10·8	15 39·10	...	24 16·8	R
26	10·8	15 39·14	...	24 19·0	R
29	10·8	15 39·16	...	24 18·8	R
194	*U Cygni, Var.* 6.				
Oct. 18	8·0	20 15 46·20	...	42 29 46·9	M
19	8·1	15 46·01	...	29 46·8	M
21	8·3	15 45·98	...	29 45·9	M
23	8·5	15 45·84	...	29 47·7	M
24	8·5	15 45·91	...	29 46·6	M
195	*Anon.*				
Aug. 1	10·5	20 16 41·05	...	106 30 48·1	R

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
196	11 *Capricorni ρ*				
Aug. 21	...	20 21 47·68	...	108 13 20·5	M
Sep. 7	...	21 47·09	...	13 19·3	R
14	...	21 47·12	...	13 17·4	R
19	...	21 47·11	...	13 19·2	R
22	...	21 47·12	...	13 19·4	R
197	*R. P. L.* 143.				
Sep. 6	...	20 27 59·69	3	5 16 3·2	R
14	...	27 59·92	3	16 1·5	R
18	...	28 0·28	3	16 3·6	R
Oct. 19	...	28 0·94	3	16 2·2	M
21	...	28 0·61	3	16 0·9	M
23	...	28 0·55	3	16 1·5	M
30	...	28 0·76	3	16 1·4	M
	R. P. L. 143—*s.p.*				
Mar. 13	...	20 27 59·90	3	5 16 4·4	R
20	...	28 0·04	3	16 4·7	R
198	50 *Cygni a, Deneb.*				
Sep. 23	...	20 37 12·26	...	45 9 43·0	R
Oct. 18	...	37 12·36	...	9 42·8	M
24	...	37 12·49	...	9 43·3	M
199	32 *Vulpeculæ.*				
Sep. 7	...	20 49 16·47	...	62 24 47·7	R
18	...	49 16·46	...	24 48·3	R
22	...	49 16·44	...	24 47·3	R
25	...	49 16·50	...	24 46·9	R
Oct. 4	...	49 16·49	...	24 48·1	R
7	...	49 16·51	...	24 47·4	R
18	...	49 16·58	...	24 47·2	M
24	...	49 16·49	...	24 47·9	M
200	64 *Cygni ζ*				
Sep. 20	...	21 7 39·47	...	60 16 51·2	R
25	...	7 39·46	...	16 50·6	R
29	...	7 39·56	...	16 51·2	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
Oct. 19	...	21 7 39·61	...	60 16 52·0	M
21	...	7 39·63	...	16 50·5	M
23	...	7 39·75	...	16 52·4	M
30	...	7 39·60	...	16 51·5	M
31	...	7 39·56	...	16 51·8	M
201		*Anon.*			
Oct. 5	10·5	21 8 57·16	...	110 47 6·0	R
7	10·7	8 56·99	...	47 6·2	R
10	10·7	8 57·15	...	47 8·6	R
13	10·6	8 57·20	...	47 8·4	R
202		22 *Aquarii* β			
Sep. 18	...	21 25 1·70	...	96 6 56·5	R
19	...	25 1·74	...	6 55·7	R
25	...	25 1·79	...	6 55·6	R
Oct. 4	...	25 1·72	...	6 57·1	R
5	...	25 1·76	...	6 56·3	R
10	...	25 1·73	...	6 55·9	R
13	...	25 1·70	...	6 55·5	R
18	...	25 1·54	...	6 57·5	M
19	...	25 1·77	...	6 56·7	M
21	...	25 1·73	...	6 56·1	M
23	...	25 1·68	...	6 57·7	M
24	...	25 1·53	...	6 56·8	M
30	...	25 1·73	...	6 57·2	M
31	...	25 1·76	...	6 57·4	M
Nov. 2	...	25 1·78	...	6 57·3	M
203		8 *Pegasi* ϵ			
Sep. 19	...	21 38 5·71	...	80 41 33·6	R
23	...	38 5·73	...	41 33·0	R
26	...	38 5·71	...	41 32·2	R
29	...	38 5·76	...	41 32·0	R
Oct. 4	...	38 5·71	...	41 33·3	R
19	...	38 5·63	...	41 35·0	M
21	...	38 5·64	...	41 32·5	M
23	...	38 5·57	...	41 34·0	M
30	...	38 5·69	...	41 33·7	M
31	...	38 5·70	...	41 34·3	M
Nov. 2	...	38 5·70	...	41 34·7	M
3	...	38 5·68	...	41 33·3	M

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
204		16 *Pegasi.*			
Sep. 26	...	21 47 25·21	...	64 39 28·0	R
Oct. 5	...	47 25·21	...	39 28·0	R
10	...	47 25·14	...	39 28·8	R
205		34 *Aquarii* α			
Sep. 29	...	21 59 24·75	...	90 55 17·4	R
Oct. 2	...	59 24·82	...	55 16·0	R
5	...	59 24·82	...	55 18·1	R
7	...	59 24·77	...	55 16·8	R
13	...	59 24·85	...	55 17·2	R
Nov. 3	...	59 24·82	...	55 18·0	M
206		43 *Aquarii* θ			
Oct. 2	...	22 10 17·29	...	98 23 57·3	R
10	...	10 17·43	...	23 58·6	R
Nov. 2	...	10 17·34	...	23 59·2	M
3	...	10 17·36	...	23 59·1	M
207		*R. P. L.* 150.			
Sep. 29	...	22 22 53·55	3	4 31 2·4	R
Oct. 13	...	22 53·19	3	31 2·9	R
31	...	22 53·08	3	31 2·2	M
Nov. 2	...	22 53·69	3	31 0·9	M
3	...	22 54·16	3	31 1·2	M
		R. P. L. 150—*s.p.*			
Mar. 27	...	22 22 54·02	3	4 31 4·0	R
28	...	22 53·26	3	31 3·6	R
Apl. 3	...	22 54·01	3	31 4·9	M
17	...	22 53·11	3	31 4·1	R
208		*R. P. L.* 151.			
Sep. 25	...	22 23 19·99	3	4 24 9·1	R
Oct. 10	...	23 18·29	3	24 11·5	R
		R. P. L. 151—*s.p.*			
Mar. 29	...	22 23 19·78	3	4 24 9·5	R
30	...	23 19·20	3	24 9·2	R
Apl. 19	...	23 19·86	3	24 12·3	R

Separate Results of Madras Meridian Circle Observations in 1876.

Number and Date.	Magnitude.	Mean Right Ascension 1876. h. m. s.	No. of Wires.	Mean Polar Distance 1876. ° ′ ″	Observer.
209		62 *Aquarii* η			
Oct 2	...	22 28 58·95	...	90 45 21·1	R
7	...	28 59·01	...	45 22·6	R
210		*Anon.*			
Sep. 26	7·2	22 46 27·69	...	130 4 43·1	R
Oct. 2	7·5	46 27·78	...	4 43·6	R
211		*Anon.*			
Sep. 23	9·5	22 48 9·19	...	128 54 5·3	R
25	9·6	48 9·13	...	54 3·1	R
29	9·5	48 9·30	...	54 3·6	R
Oct. 4	9·5	48 9·34	...	54 4·1	R
212		54 *Pegasi* α, *Markab.*			
Oct. 13	...	22 58 35·04	...	75 27 41·3	R
213		6 *Piscium* γ			
Nov. 1	...	23 10 44·20	...	87 23 41·9	M
214		8 *Piscium* κ			
Nov. 1	...	23 20 34·46	...	89 25 24·6	M
215		*R. P. L.* 158—*s.p.*			
Apl. 21	...	23 27 49·07	3	3 22 36·8	R
24	...	27 50·28	3	22 38·7	R
216		17 *Piscium* ι			
Nov. 1	...	23 33 34·34	...	85 2 45·4	M
27	...	33 34·28	...	2 44·8	M
217		δ *Sculptoris.*			
Nov. 27	...	23 42 27·80	...	118 48 58·2	M
218		2 *Ceti.*			
Dec. 13	4·0	23 57 23·04	...	108 1 35·6	M
14	4·2	57 23·07	...	1 35·8	M
15	4·3	57 23·10	...	1 35·1	M

MEAN POSITIONS OF STARS

OBSERVED WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1876

REDUCED TO JANUARY 1 OF THAT YEAR

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
1	11 Cassiopeiæ β	2·4	...	0	2	34·26	31	32	3·8	2	0·95
2	ϵ Phœnicis	4·4	2	0	3	6·81	136	25	54·6	2	0·96
3	8 Ceti ι	3·6	...	0	13	6·58	99	30	42·3	4	0·95
4	O. A. N. 282	8·1	5	0	16	42·31	34	58	8·0	5	0·83
5	κ Phœnicis	4·1	3	0	20	5·87	134	22	7·1	3	0·95
6	α Phœnicis	2·1	3	0	20	9·13	132	58	47·6	3	0·96
7	12 Ceti	6·2	...	0	23	42·65	94	38	34·3	1	0·90
8	β Tucanæ—1st	4·4	2	0	25	51·39	153	38	33·1	2	0·95
9	β Tucanæ—2nd	4·7	3	0	25	52·01	153	38	57·4	3	0·97
10	31 Andromedæ δ... ...	3·4	...	0	32	42·05	59	49	5·7	3	0·95
11	16 Ceti β	2·1	...	0	37	21·80	108	40	3·2	1	0·87
12	24 Cassiopeiæ η—1st ...	4·4	4	0	41	36·85	32	50	34·4	4	0·95
13	24 Cassiopeiæ η—2nd ...	8·3	4	0	41	37·09	32	50	38·3	4	0·96
14	27 Cassiopeiæ γ	2·3	...	0	49	14·46	29	57	18·1	3	0·96
15	2 Ursæ Minoris	4·5	...	0	52	8·26	4	24	34·7	7	0·69
16	R. P. L. 14	6·2	...	0	55	38·90	3	31	0·4	2	0·34
17	71 Piscium ϵ	4·5	...	0	56	30·55	82	46	41·3	1	0·87
18	β Phœnicis	3·7	4	1	0	32·87	137	23	1·2	4	0·95
19	31 Ceti η	3·6	...	1	2	21·05	100	50	24·7	2	0·96
20	43 Andromedæ β (*Mirach*)	2·2	...	1	2	47·50	55	2	15·1	2	0·97
21	R. P. L. 18	7·9	...	1	11	53·74	2	5	5·5	1	0·36
22	37 Cassiopeiæ δ	2·8	...	1	17	43·28	30	24	37·5	3	0·95
23	45 Ceti θ ¹...	3·8	...	1	17	49·43	98	49	25·1	3	0·97
24	γ Phœnicis	3·4	3	1	22	58·64	133	57	15·9	3	0·97
25	δ Phœnicis	4·3	3	1	26	5·04	139	43	4·1	3	0·96
26	106 Piscium ν	4·7	...	1	34	58·73	85	8	25·1	7	0·94
27	52 Ceti τ	3·6	...	1	38	18·16	106	35	27·7	4	0·97
28	55 Ceti ζ	3·9	...	1	45	20·45	100	56	55·1	3	0·97
29	45 Cassiopeiæ ϵ	3·6	...	1	45	29·58	26	56	30·0	2	0·96
30	6 Arietis β	2·8	...	1	47	47·44	69	47	56·8	2	0·93
31	χ Eridani	4·0	4	1	51	8·04	142	13	37·2	4	0·95
32	α Hydri	3·0	3	1	54	51·81	152	10	27·5	3	0·97
33	57 Andromedæ γ—1st ...	2·2	...	1	56	17·55	48	15	59·2	1	0·97
34	57 Andromedæ γ—2nd ...	5·0	...	1	56	18·40	48	15	54·3	2	0·97
35	13 Arietis α	2·0	...	2	0	11·12	67	7	31·0	6	0·95

15.—12 R. P. L. 16.—Groombridge 195. 21.—Carrington 183.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
1	11 Cassiopeiæ β ...	+ 3·0966	+ 0·0514	+ 0·066	− 20·053	+ 0·014	+ 0·19	3216
2	ϵ Phœnicis	+ 3·0531	− 0·0289	+ 0·008	− 20·053	+ 0·015	+ 0·19	Stone
3	8 Ceti ι	+ 3·0595	− 0·0023	− 0·003	− 20·022	+ 0·034	+ 0·03	14
4	O. A. N. 282... ...	+ 3·2120	+ 0·0492	...	− 20·000	+ 0·042	...	...
5	κ Phœnicis	+ 2·9577	− 0·0239	...	− 19·977	+ 0·047	...	...
6	α Phœnicis	+ 2·9628	− 0·0227	+ 0·022	− 19·977	+ 0·047	+ 0·40	Stone
7	12 Ceti	+ 3·0610	+ 0·0008	− 0·000	− 19·947	+ 0·055	+ 0·01	38
8	β Tucanæ—1st ...	+ 2·7686	− 0·0446	+ 0·008	− 19·927	+ 0·054	+ 0·03	Stone
9	β Tucanæ—2nd ...	+ 2·7682	− 0·0446	+ 0·008	− 19·927	+ 0·054	+ 0·03	Stone
10	31 Andromedæ δ ...	+ 3·1828	+ 0·0221	+ 0·010	− 19·850	+ 0·075	+ 0·08	57
11	16 Ceti β	+ 2·9989	− 0·0055	+ 0·015	− 19·788	+ 0·080	− 0·03	70
12	24 Cassiop. η—1st ...	+ 3·4464	+ 0·0606	+ 0·135	− 19·724	+ 0·099	+ 0·48	79
13	24 Cassiop. η—2nd ...							
14	27 Cassiopeiæ γ ...	+ 3·5668	+ 0·0714	+ 0·001	− 19·594	+ 0·119	+ 0·02	99
15	2 Ursæ Minoris ...	+ 6·9813	+ 1·3408	+ 0·068	− 19·538	+ 0·238	+ 0·01	92
16	R. P. L. 14	+ 8·2973	+ 2·0793	+ 0·054	− 19·468	+ 0·299	+ 0·02	95
17	71 Piscium ϵ... ...	+ 3·1136	+ 0·0087	− 0·007	− 19·448	+ 0·119	− 0·04	113
18	β Phœnicis	+ 2·6928	− 0·0183	− 0·006	− 19·359	+ 0·111	+ 0·04	Stone
19	31 Ceti η	+ 3·0034	0·0000	+ 0·013	− 19·317	+ 0·126	+ 0·12	141
20	43 Andromedæ β ...	+ 3·3252	+ 0·0286	+ 0·014	− 19·307	+ 0·139	+ 0·08	140
21	R. P. L. 18	+ 14·4035	+ 6·5422	...	− 19·076	+ 0·651	...	...
22	37 Cassiopeiæ δ ...	+ 3·8300	+ 0·0773	+ 0·038	− 18·912	+ 0·194	+ 0·04	180
23	45 Ceti θ^1	+ 3·0031	+ 0·0018	− 0·007	− 18·909	+ 0·154	+ 0·20	184
24	γ Phœnicis	+ 2·6159	− 0·0125	− 0·004	− 18·754	+ 0·143	+ 0·24	Stone
25	δ Phœnicis	+ 2·4936	− 0·0139	+ 0·009	− 18·657	+ 0·141	− 0·14	Stone
26	106 Piscium ν ...	+ 3·1180	+ 0·0091	− 0·003	− 18·357	+ 0·191	− 0·01	228
27	52 Ceti τ	+ 2·9065	− 0·0004	− 0·122	− 18·238	+ 0·184	− 0·86	233
28	55 Ceti ζ	+ 2·9576	+ 0·0023	+ 0·000	− 17·973	+ 0·199	+ 0·03	247
29	45 Cassiopeiæ ϵ ...	+ 4·2412	+ 0·0993	+ 0·004	− 17·967	+ 0·283	+ 0·02	239
30	6 Arietis β	+ 3·2952	+ 0·0183	+ 0·005	− 17·877	+ 0·226	+ 0·10	252
31	χ Eridani	+ 2·2680	− 0·0087	+ 0·067	− 17·740	+ 0·162	− 0·25	Stone
32	α Hydri	+ 1·8522	− 0·0027	+ 0·034	− 17·588	+ 0·138	− 0·01	Stone
33	57 Androm. γ—1st...	+ 3·6517	+ 0·0393	+ 0·002	− 17·525	+ 0·266	+ 0·05	276
34	57 Androm. γ—2nd...	+ 3·6518	+ 0·0393	+ 0·002	− 17·525	+ 0·266	+ 0·05	
35	13 Arietis α	+ 3·3547	+ 0·0203	+ 0·013	− 17·359	+ 0·252	+ 0·13	287

2—6—8—9—18—24—25—31—32.—Proper motions from *Stone's Cape Catalogue.*

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
36	65 Ceti ξ^1	4·4	...	2	6	25·61	81	44	8·8	1	0·94
37	67 Ceti	5·5	...	2	10	47·91	96	59	40·6	6	0·96
38	ϕ Eridani	4·3	2	2	12	4·72	142	5	13·0	2	0·95
39	S Persei, Var. 4	9·2	8	2	13	58·05	31	58	55·1	8	0·04
40	... ...	8·5	4	2	14	22·96	31	43	59·7	4	0·26
41	δ Hydri	5·4	...	2	19	33·04	159	13	27·5	2	0·98
42	73 Ceti ξ^2	4·4	...	2	21	33·98	82	5	48·7	6	0·95
43	82 Ceti δ	4·1	...	2	33	7·56	90	12	27·7	4	0·95
44	ι Eridani	4·2	3	2	35	46·07	130	23	13·9	3	0·97
45	86 Ceti γ	3·6	...	2	36	52·58	87	17	16·5	10	0·66
46	89 Ceti π	4·3	...	2	38	13·26	104	23	4·1	2	0·97
47	41 Arietis	3·8	...	2	42	41·24	63	15	3·6	2	0·95
48	3 Eridani η	4·0	...	2	50	22·09	99	23	32·9	3	0·96
49	θ Eridani—1st	3·6	3	2	53	33·46	130	48	10·0	3	0·97
50	θ Eridani—2nd	5·9	2	2	53	34·31	130	48	8·5	3	0·97
51	92 Ceti α (*Menkar*) ...	2·7	...	2	55	47·89	86	23	51·4	8	0·48
52	11 Eridani τ^3	4·1	...	2	56	55·37	114	6	43·1	3	0·95
53	R. P. L. 33	5·8	...	3	3	17·34	5	32	2·5	4	0·26
54	57 Arietis δ	4·5	...	3	4	32·39	70	44	38·5	9	0·53
55	12 Eridani	3·8	...	3	6	48·21	119	28	37·7	4	0·95
56	13 Eridani ζ	4·8	...	3	9	48·52	99	16	53·4	3	0·98
57	16 Eridani τ^4	3·8	...	3	13	59·84	112	12	38·7	1	0·99
58	R. P. L. 34	5·9	...	3	26	3·82	3	44	54·6	5	0·57
59	18 Eridani ϵ	3·7	...	3	27	5·32	99	52	45·0	1	0·97
60	19 Eridani τ^5	4·2	...	3	28	18·61	112	2	59·9	1	0·99
61	23 Eridani δ	3·7	...	3	37	18·47	100	11	4·4	1	0·99
62	25 Tauri η (*Alcyone*) ..	3·0	...	3	40	6·93	66	16	48·4	8	0·37
63	υ^2 Eridani	4·1	2	3	44	48·83	126	34	36·9	2	0·98
64	34 Eridani γ^1	3·0	...	3	52	14·60	103	51	45·9	11	0·21
65	R. P. L. 35	6·7	...	3	58	15·12	4	46	30·9	9	0·39
66	Lalande 7655	8·1	2	4	1	7·73	70	35	42·4	2	0·01
67	38 Eridani o^1	4·1	...	4	5	48·72	97	9	45·2	5	0·22
68	γ Doradûs	4·5	...	4	12	46·58	141	47	59·5	1	0·99
69	41 Eridani υ^4	3·3	...	4	13	12·13	124	6	8·5	1	0·96
70	T Tauri, Var. 6	10·0	6	4	14	45·58	70	45	41·6	6	0·02

53.—Groombridge 595.
58.—Groombridge 642.

65.—Groombridge 750.
66.—Comparison star for Sylvia in 1877.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Anwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
36	65 Ceti ξ^1	+ 3·1741	+ 0·0116	− 0·003	− 17·079	+ 0·249	+ 0·00	306
37	67 Ceti	+ 2·9836	+ 0·0049	+ 0·004	− 16·876	+ 0·242	+ 0·11	321
38	ϕ Eridani	+ 2·1368	− 0·0044	+ 0·005	− 16·817	+ 0·177	+ 0·05	Stone
39	S Persei, Var. 4 ...	+ 4·2537	+ 0·0782	...	− 16·725	+ 0·348	...	...
40	... ...	+ 4·2685	+ 0·0791	...	− 16·704	+ 0·350	...	...
41	δ Hydri	+ 1·0566	+ 0·0292	− 0·010	− 16·450	+ 0·095	− 0·01	Stone
42	73 Ceti ξ^2	+ 3·1797	+ 0·0117	+ 0·001	− 16·349	+ 0·276	+ 0·00	347
43	82 Ceti δ	+ 3·0692	+ 0·0081	+ 0·000	− 15·743	+ 0·284	+ 0·01	372
44	ι Eridani	+ 2·3573	− 0·0020	+ 0·003	− 15·600	+ 0·223	+ 0·06	Stone
45	86 Ceti γ	+ 3·1123	+ 0·0094	− 0·011	− 15·537	+ 0·294	+ 0·16	383
46	89 Ceti π	+ 2·8538	+ 0·0033	− 0·003	− 15·462	+ 0·272	+ 0·01	388
47	41 Arietis	+ 3·5114	+ 0·0229	+ 0·003	− 15·211	+ 0·340	+ 0·12	395
48	3 Eridani η	+ 2·9228	+ 0·0052	+ 0·004	− 14·764	+ 0·294	+ 0·22	413
49	θ Eridani—1st ...	+ 2·2793	− 0·0004	...	− 14·573	+ 0·234	...	...
50	θ Eridani—2nd ...	+ 2·2793	− 0·0004	...	− 14·573	+ 0·234	...	...
51	92 Ceti α (*Menkar*) ...	+ 3·1306	+ 0·0098	− 0·003	− 14·438	+ 0·323	+ 0·07	428
52	11 Eridani τ^3 ...	+ 2·6550	+ 0·0018	− 0·012	− 14·369	+ 0·276	+ 0·04	434
53	R. P. L. 33 ...	+ 12·9678	+ 1·6028	+ 0·045	− 13·977	+ 1·362	+ 0·12	402
54	57 Arietis δ	+ 3·4090	+ 0·0171	+ 0·010	− 13·896	+ 0·364	− 0·01	446
55	12 Eridani	+ 0·5223	+ 0·0012	+ 0·025	− 13·754	+ 0·273	− 0·66	454
56	13 Eridani ζ	+ 2·9112	+ 0·0056	− 0·002	− 13·560	+ 0·318	− 0·04	457
57	16 Eridani τ^4 ...	+ 2·6634	+ 0·0026	+ 0·001	− 13·288	+ 0·297	− 0·04	469
58	R. P. L. 34	+ 19·0456	+ 3·2349	+ 0·136	− 12·480	+ 2·180	+ 0·06	Gr.
59	18 Eridani ϵ	+ 2·8894	+ 0·0055	− 0·068	− 12·410	+ 0·336	− 0·01	493
60	19 Eridani τ^5 ...	+ 2·6451	+ 0·0030	+ 0·001	− 12·324	+ 0·309	+ 0·04	495
61	23 Eridani δ	+ 2·8771	+ 0·0055	− 0·008	− 11·695	+ 0·346	− 0·74	515
62	25 Tauri η (*Alcyone*)	+ 3·5536	+ 0·0177	− 0·000	− 11·495	+ 0·430	+ 0·04	521
63	υ^2 Eridani	+ 2·2477	+ 0·0026	− 0·008	− 11·155	+ 0·277	+ 0·07	Stone
64	34 Eridani γ^1 ...	+ 2·7922	+ 0·0047	+ 0·003	− 10·609	+ 0·351	+ 0·11	546
65	R. P. L. 35 ...	+ 16·8711	+ 1·8097	+ 0·057	− 10·160	+ 2·125	− 0·05	Gr.
66	Lalande 7655 ...	+ 3·4812	+ 0·0139	...	− 9·942	+ 0·445	...	...
67	38 Eridani o^1 ...	+ 2·9247	+ 0·0058	− 0·001	− 9·583	+ 0·379	− 0·09	568
68	γ Doradûs	+ 1·5558	+ 0·0076	+ 0·004	− 9·044	+ 0·206	− 0·10	Stone
69	41 Eridani υ^4 ...	+ 2·2634	+ 0·0031	− 0·001	− 9·011	+ 0·299	− 0·01	590
70	T Tauri, Var. 6 ...	+ 3·4905	+ 0·0128	...	− 8·888	+ 0·460	...	...

38—41—44—63—68.—Proper motions from *Stone's Cape Catalogue.*
65.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
71	43 Eridani v^5	4·0	1	4	19	22·45	124	18	20·9	1	0·99
72	74 Tauri ϵ...	3·7	...	4	21	22·59	71	5	47·8	7	0·42
73	87 Tauri α (*Aldebaran*) ...	1·0	...	4	28	48·36	73	44	32·1	5	0·40
74	α Doradûs	3·8	2	4	31	19·02	145	18	7·2	2	0·97
75	3 Aurigæ ι	2·7	...	4	48	55·20	57	1	57·1	8	0·06
76	... ...	8·7	5	4	50	49·23	71	8	10·9	5	0·92
77	... ...	9·1	5	4	52	26·81	71	22	44·9	5	0·94
78	2 Leporis ϵ	3·3	...	5	0	12·67	112	32	21·3	7	0·31
79	μ Doradûs, Var. 1 ...	9·6	3	5	5	53·33·25	151	57	57·8	3	0·95
80	19 Orionis β (*Rigel*) ...	0·3	...	5	8	34·73	98	20	47·5	2	0·04
81	24 Orionis γ	1·9	...	5	18	28·69	83	45	51·4	3	0·98
82	R. P. L. 40	6·0	...	5	22	27·51	4	52	21·6	5	0·09
83	S Orionis, Var. 4... ...	9·9	10	5	22	53·28	94	47	38·9	10	0·03
84	9 Leporis β	3·0	...	5	22	55·83	110	51	35·9	2	0·97
85	34 Orionis δ, Var. 1 ...	Var.	...	5	25	40·32	90	23	32·7	1	0·94
86	ϵ Columbæ	4·3	1	5	26	48·50	125	33	44·8	1	0·97
87	11 Leporis α	2·7	...	5	27	15·67	107	54	44·9	2	0·52
88	44 Orionis ι—1st	3·0	...	5	29	21·76	95	59	36·1	1	0·99
89	46 Orionis ϵ	1·8	...	5	29	55·20	91	16	58·7	4	0·05
90	48 Orionis σ—1st ...	3·7	...	5	32	31·08	92	40	25·6	1	0·96
91	R. P. L. 42	7·9	...	5	32	58·13	2	41	11·4	6	0·59
92	α Columbæ	2·7	...	5	35	9·63	124	8	28·7	3	0·10
93	53 Orionis κ	2·2	...	5	41	52·40	99	42	55·4	1	0·99
94	β Columbæ	3·2	2	5	46	35·18	125	48	58·9	2	0·97
95	58 Orionis α (*Betelgeux*) ...	0·9	...	5	48	27·53	82	37	3·2	4	0·11
96	34 Aurigæ β	2·1	...	5	50	25·63	46	4	4·2	1	0·99
97	R. P. L. 43	6·6	...	5	57	21·37	3	14	15·9	1	0·46
98	67 Orionis ν	4·4	...	6	0	29·54	75	13	6·2	2	0·13
99	T Monocerotis, Var. 3 ...	6·6	10	6	18	31·03	82	50	54·8	10	0·03
100	24 Geminorum γ ...	2·0	...	6	30	32·88	73	29	49·0	1	0·18
101	51 Cephei (*Hev.*)	5·3	...	6	41	46·05	2	45	58·5	2	0·15
102	23 Canis Majoris γ ...	4·1	...	6	58	8·90	105	27	5·4	1	0·14
103	66 Geminorum α^2 (*Castor*)	2·0	...	7	26	41·21	57	50	30·0	2	0·18
104	R. P. L. 45	7·2	...	7	30	17·38 12·92	1	0	32·5	1	0·64
105	10 Canis Min. α (*Procyon*).	0·5	...	7	32	48·52	84	27	29·7	3	0·18

76—77.—Comparison stars for Isis in 1876.
82.—Groombridge 944.
97.—Groombridge 1004.
104.—Groombridge 1359.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
71	43 Eridani v^5 ...	+ 2·2465	+ 0·0033	+ 0·005	− 8·525	+ 0·300	− 0·03	Stone
72	74 Tauri ϵ	+ 3·4883	+ 0·0120	+ 0·007	− 8·366	+ 0·466	+ 0·03	609
73	87 Tauri α	+ 3·4316	+ 0·0105	+ 0·004	− 7·771	+ 0·464	+ 0·18	630
74	α Doradûs	+ 1·2841	+ 0·0099	+ 0·011	− 7·568	+ 0·176	+ 0·04	Stone
75	3 Aurigæ ι	+ 3·8979	+ 0·0144	+ 0·001	− 6·121	+ 0·544	+ 0·00	677
76	... ...	+ 3·5083	+ 0·0093	...	− 5·962	+ 0·491	...	...
77	... ...	+ 3·5033	+ 0·0090	...	− 5·826	+ 0·492	...	...
78	2 Leporis ϵ	+ 2·5361	+ 0·0033	+ 0·000	− 5·172	+ 0·359	+ 0·07	713
79	μ Doradûs, Var. 1 ...	+ 0·6310	+ 0·0136	...	− 4·691	+ 0·091	...	...
80	19 Orionis β (*Rigel*)...	+ 2·8809	+ 0·0040	− 0·001	− 4·462	+ 0·412	− 0·01	736
81	24 Orionis γ	+ 3·2158	+ 0·0048	− 0·002	− 3·613	+ 0·463	+ 0·02	761
82	R. P. L. 40	+ 18·5456	+ 0·6301	...	− 3·270	+ 2·670	...	...
83	S Orionis, Var. 4 ...	+ 2·9605	+ 0·0036	...	− 3·233	+ 0·427	...	...
84	9 Leporis β	+ 2·5694	+ 0·0030	− 0·002	− 3·230	+ 0·371	+ 0·08	781
85	34 Orionis δ, Var. 1...	+ 3·0631	+ 0·0038	− 0·001	− 2·998	+ 0·443	+ 0·01	787
86	ϵ Columbæ	+ 2·1265	+ 0·0030	+ 0·002	− 2·894	+ 0·308	+ 0·07	Stone
87	11 Leporis α... ...	+ 2·6444	+ 0·0029	− 0·001	− 2·855	+ 0·383	− 0·01	796
88	44 Orionis ι—1st ...	+ 2·9331	+ 0·0034	− 0·001	− 2·673	+ 0·425	− 0·01	806
89	46 Orionis ϵ	+ 3·0425	+ 0·0035	− 0·002	− 2·625	+ 0·441	− 0·01	809
90	48 Orionis σ—1st ...	+ 3·0102	+ 0·0033	− 0·002	− 2·404	+ 0·352	− 0·01	814
91	R. P. L. 42	+ 31·3678	+ 1·4460	...	− 2·360	+ 4·548	...	...
92	α Columbæ	+ 2·1709	+ 0·0027	+ 0·005	− 2·170	+ 0·316	+ 0·03	Stone
93	53 Orionis κ	+ 2·8439	+ 0·0027	− 0·002	− 1·584	+ 0·414	− 0·00	844
94	β Columbæ	+ 2·1091	+ 0·0026	+ 0·002	− 1·173	+ 0·308	− 0·39	Stone
95	58 Orionis α, Var. 2...	+ 3·2452	+ 0·0027	+ 0·001	− 1·009	+ 0·473	− 0·02	860
96	34 Aurigæ β	+ 4·4059	+ 0·0043	− 0·007	− 0·885	+ 0·642	+ 0·01	859
97	R. P. L. 43	+ 26·7042	+ 0·0916	...	− 0·231	+ 3·894	...	...
98	67 Orionis ν	+ 3·4250	+ 0·0017	− 0·000	+ 0·043	+ 0·500	+ 0·01	887
99	T Monocerotis, Var. 3	+ 3·2394	+ 0·0005	...	+ 0·619	+ 0·470	...	...
100	24 Geminorum γ ...	+ 3·4648	− 0·0015	+ 0·002	+ 2·665	+ 0·500	+ 0·04	969
101	51 Cephei (*Hev.*) ...	+ 30·3200	+ 2·1145	− 0·040	+ 3·035	+ 4·347	+ 0·05	Gr.
102	23 Canis Majoris γ ...	+ 2·7145	+ 0·0005	− 0·002	+ 5·034	+ 0·381	+ 0·00	1028
103	66 Gem. α^2 (*Castor*)	+ 3·8534	− 0·0133	− 0·015	+ 7·406	+ 0·519	+ 0·08	1087
104	R. P. L. 45	+ 73·1800	− 30·3739	− 0·323	+ 7·691	+ 9·855	− 0·01	Gr.
105	10 Canis Minoris α ...	+ 3·1915	− 0·0041	− 0·047	+ 7·901	+ 0·425	+ 1·03	1106

71—74—86—92—94.—Proper motions from *Stone's Cape Catalogue*.
101.—Proper motions from *Greenwich Catalogue* 1880.
104.—Proper motions from *Greenwich Catalogue* 1872.

Mean Positions of Stars for 1876, *January* 1*st*.

Number	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
106	78 Geminorum β (*Pollux*).	1·1	...	7	37	43·72	61	40	34·1	2	0·18
107	R. P. L. 49...	6·7	...	7	46	58·87	5	35	26·0	2	0·44
108	6 Cancri	5·0	...	7	55	54·00	61	51	34·2	2	0·20
109	15 Argus *t*...	2.9	...	8	2	15·76	113	56	51·5	2	0·22
110	... ...	9·4	4	8	13	20·62	131	19	24·8	4	0·24
111	33 Cancri η	5·5	...	8	25	32·17	69	8	19·9	1	0·24
112	11 Hydræ ϵ	3·6	...	8	40	12·52	83	7	36·8	3	0·23
113	R. P. L. 60	7·0	...	8	49	7·66	5	19	34·7	8	0·65
114	33 Cancri	6·6	...	9	12	3·47	71	46	11·6	3	0·24
115	30 Hydræ *a*, Var. 2 ...	Var.	...	9	21	29·54	98	7	18·6	3	0·24
116	R. P. L. 69	7·9	...	9	36	41·27	2	49	59·7	2	0·51
117	17 Leonis ϵ	3·1	...	9	38	48·62	65	39	21·0	3	0·26
118	R. P. L. 70	5·0	...	9	48	26·01	5	29	10·4	6	0·70
119	29 Leonis π	5·0	...	9	53	39·49	81	21	41·5	1	0·29
120	32 Leonis α (*Regulus*) ..	1·4	...	10	1	45·96	77	25	38·4	2	0·24
121	R. P. L. 72	6·0	...	10	11	18·91	5	7	11·5	5	0·35
122	41 Leonis γ^1	2·5	...	10	13	7·99	69	31	54·9	2	0·27
123	47 Leonis ρ	4·0	...	10	26	16·86	80	3	18·7	1	0·30
124	53 Leonis *l*	5·3	...	10	42	44·30	78	47	54·9	5	0·28
125	63 Leonis χ	4·7	...	10	58	37·21	81	59	37·2	2	0·30
126	68 Leonis δ	2·8	...	11	7	30·67	68	47	48·7	2	0·29
127	12 Crateris δ	3·9	...	11	13	8·52	104	6	27·2	4	0·29
128	91 Leonis ν	4·5	...	11	30	35·96	90	8	20·0	2	0·28
129	... ...	8·5	4	11	33	41·44	144	18	33·8	4	0·24
130	94 Leonis β (*Deneb*) ...	2·2	...	11	42	44·03	74	44	5·4	3	0·30
131	R. P. L. 89	6·3	...	11	58	30·13	3	43	32·6	2	0·60
132	2 Corvi ϵ	3·1	...	12	3	44·94	111	55	47·0	2	0·32
133	15 Virginis η	4·0	...	12	13	33·71	89	58	37·2	2	0·29
134	... ...	9·7	5	12	15	52·26	90	46	16·7	5	0·30
135	9 Corvi β...	2·8	...	12	27	52·41	112	42	37·4	1	0·33
136	R. P. L. 98	6·6	...	12	48	6·90	5	54	27·0	1	0·31
137	R. P. L. 99	5·6	...	12	48	16·54	5	54	45·9	1	0·32
138	51 Virginis θ	4·4	...	13	3	31·79	94	52	33·7	6	0·34
139	67 Virginis α (*Spica*) ...	1·2	...	13	18	39·71	100	30	47·1	1	0·32
140	R. P. L. 103	7·0	...	13	19	42·79	4	35	52·0	4	0·50

113.—Carrington 1286.
116.—Carrington 1418.
118.—Carrington 1451.
121.—Groombridge 1620.

131.—Groombridge 1850.
134.— Comparison star for Hestia in 1876.
137.—Groombridge 1940.
140.—Groombridge 2007.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers. Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
106	78 Gem. β (*Pollux*) ...	+ 3·7283	− 0·0128	− 0·048	+ 8·295	+ 0·491	+ 0·05	1112
107	R. P. L. 49	+ 15·2694	− 1·2366	...	+ 9·025	+ 1·985	...	...
108	6 Cancri	+ 3·6978	− 0·0148	− 0·003	+ 9·715	+ 0·468	+ 0·04	1149
109	15 Argus ι	+ 2·5609	+ 0·0009	− 0·008	+ 10·198	+ 0·318	− 0·06	1170
110	... ...	+ 2·0902	+ 0·0015	...	+ 11·021	+ 0·250	...	...
111	33 Cancri η	+ 3·4824	− 0·0129	− 0·004	+ 11·896	+ 0·404	+ 0·05	1207
112	11 Hydræ ε	+ 3·1955	− 0·0071	− 0·014	+ 12·905	+ 0·351	+ 0·02	1243
113	R. P. L. 60	+ 13·6815	− 1·7133	...	+ 13·492	+ 1·470	...	...
114	83 Cancri	+ 3·3668	− 0·0134	− 0·009	+ 14·906	+ 0·323	+ 0·14	1309
115	30 Hydræ α, Var. 2...	+ 2·9505	− 0·0013	− 0·002	+ 15·447	+ 0·268	− 0·05	1330
116	R. P. L. 69	+ 18·8847	− 5·5377	...	+ 16·260	+ 1·612	...	...
117	17 Leonis ε	+ 3·4217	− 0·0180	− 0·004	+ 16·368	+ 0·282	+ 0·01	1368
118	R. P. L. 70	+ 10·6315	− 1·5535	...	+ 16·840	+ 0·835	...	...
119	29 Leonis π	+ 3·1786	− 0·0080	− 0·004	+ 17·083	+ 0·236	+ 0·01	1398
120	32 Leonis α (*Regulus*).	+ 3·2193	− 0·0102	− 0·018	+ 17·444	+ 0·225	− 0·02	1406
121	R. P. L. 72	+ 9·8769	+ 1·6166	− 0·096	+ 17·841	+ 0·650	− 0·04	1399
122	41 Leonis γ^1... ...	+ 3·2966	− 0·0148	+ 0·021	+ 17·913	+ 0·208	+ 0·14	1432
123	47 Leonis ρ	+ 3·1654	− 0·0080	− 0·001	+ 18·401	+ 0·176	− 0·01	1467
124	53 Leonis l	+ 3·1598	− 0·0080	− 0·002	+ 18·925	+ 0·145	+ 0·02	1500
125	63 Leonis χ	+ 3·1219	− 0·0056	− 0·026	+ 19·339	+ 0·113	+ 0·02	1535
126	68 Leonis δ	+ 3·1900	− 0·0132	+ 0·010	+ 19·531	+ 0·098	+ 0·12	1546
127	12 Crateris δ... ...	+ 3·0040	+ 0·0064	− 0·011	+ 19·637	+ 0·081	− 0·21	1557
128	91 Leonis ν	+ 3·0718	+ 0·0003	− 0·002	+ 19·899	+ 0·049	− 0·05	1586
129	... ...	+ 2·8591	+ 0·0360	...	+ 19·922	+ 0·039	...	...
130	94 Leonis β (*Denebola*)...	+ 3·0997	− 0·0074	− 0·036	+ 19·997	+ 0·025	+ 0·10	1605
131	R. P. L. 89	+ 3·2063	− 0·4970	...	+ 20·054	− 0·006	...	...
132	2 Corvi ε	+ 3·0810	+ 0·0142	− 0·006	+ 20·052	− 0·016	− 0·02	1626
133	15 Virginis η... ...	+ 3·0722	+ 0·0027	− 0·006	+ 20·019	− 0·035	+ 0·02	1647
134	... ...	+ 3·0735	+ 0·0032	...	+ 20·006	− 0·039	...	...
135	9 Corvi β	+ 3·1401	+ 0·0164	− 0·003	+ 19·906	− 0·064	+ 0·05	1685
136	R. P. L. 98	+ 0·3794	+ 0·2183	− 0·017	+ 19·614	− 0·020	− 0·02	1730
137	R. P. L. 99	+ 0·3730	+ 0·2193	− 0·020	+ 19·611	− 0·019	− 0·02	1731
138	51 Virginis θ ...	+ 3·1035	+ 0·0078	− 0·004	+ 19·289	− 0·132	+ 0·04	1747
139	67 Virginis α (*Spica*).	+ 3·1557	+ 0·0116	− 0·004	+ 18·884	− 0·163	+ 0·02	1747
140	R. P. L. 103	− 2·5941	+ 0·9474	...	+ 18·854	+ 0·121	...	...

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension. h.	m.	s.	Mean Polar Distance. °	′	″	Observations.	Fraction of Year.
141	79 Virginis ζ	3·5	...	13	28	22·55	89	57	38·7	4	0·34
142	8 Bootis η	2·9	...	13	48	46·85	70	58	45·8	5	0·35
143	93 Virginis τ	4·3	...	13	55	20·21	87	51	14·6	7	0·35
144	R. P. L. 108	7·8	...	14	2	23·49	3	38	53·0	3	0·35
145	16 Bootis α (*Arcturus*) ...	0·0	...	14	10	0·33	70	10	15·8	5	0·37
146	25 Bootis ρ	3·6	...	14	26	29·16	59	4	59·7	2	0·42
147	R Camelopardi, Var. 1 ...	9·3	5	14	27	7·49	5	36	22·9	6	0·34
148	36 Bootis ε (*Mirac*) ...	2·6	...	14	39	34·20	62	24	6·3	2	0·39
149	9 Libræ α^2	3·0	...	14	44	1·25	105	31	30·4	8	0·41
150	W. B. E. XIV. 896 ...	8·9	4	14	49	0·02	102	42	5·0	5	0·33
151	... ...	9·3	5	14	55	48·23	104	0	58·8	5	0·33
152	43 Bootis ψ	4·5	...	14	59	7·94	62	34	3·5	2	0·41
153	R. P. L. 111	7·1	...	15	4	21·20	5	34	12·2	6	0·45
154	27 Libræ β	2·7	...	15	10	20·14	98	55	25·0	4	0·40
155	R. P. L. 114	6·9	...	15	17	55·25	2	17	35·9	6	0·33
156	5 Cor. Bor. α (*Alpheta*) ...	2·4	...	15	29	26·33	62	51	59·9	4	0·42
157	24 Serpentis α	2·7	...	15	38	9·61	83	10	57·7	3	0·46
158	R Serpentis, Var. 2 ...	8·3	5	15	44	58·54	74	29	18·3	5	0·37
159	R. P. L. 115	7·0	...	15	46	35·66	4	46	6·3	4	0·49
160	8 Scorpii β^1	3·0	...	15	58	13·70	109	27	51·5	1	0·49
161	R. P. L. 116	6·9	...	16	2	14·47	4	20	42·9	4	0·50
162	1 Ophiuchi δ	2·8	...	16	7	50·84	93	22	25·1	4	0·49
163	21 Scorpii α (*Antares*) ...	1·1	...	16	21	48·41	116	9	18·0	3	0·48
164	40 Herculis ζ	3·1	...	16	36	36·72	58	10	17·0	6	0·52
165	... ...	7·2	3	16	42	29·86	138	53	54·7	3	0·40
166	27 Ophiuchi κ	3·4	...	16	51	47·94	80	25	49·2	3	0·48
167	T Serpentis, Var. 4 ...	10·6	10	16	54	40·92	110	19	45·5	10	0·59
168	22 Ursæ Minoris ε	4·5	...	16	58	45·11	7	45	43·2	1	0·10
169	R Ophiuchi, Var. 2 ...	8·5	3	17	0	38·83	105	55	32·0	4	0·53
170	... ...	8·8	2	17	7	4·55	137	25	57·3	2	0·45
171	64 Herculis α, Var. 1 ...	Var.	...	17	8	59·64	75	27	58·9	9	0·58
172	42 Ophiuchi θ	3·4	...	17	14	23·72	114	52	24·8	4	0·58
173	55 Ophiuchi α	2·2	...	17	29	10·71	77	20	51·9	8	0·56
174	86 Herculis μ	3·5	...	17	41	36·30	62	12	18·8	7	0·59
175	13 Sagittarii μ^1	4·1	...	18	6	20·82	111	5	20·1	3	0·59

144.—Groombridge 2099.
150—151.—Comparison stars for Asia in 1876.
153.—Groombridge 2213.
155.—Groombridge 2283.
159.—Carrington 2380.
161.—Carrington 2423.
165.—Comparison star for comet in 1862.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	*s*	*s*	"	"	"	
141	79 Virginis ζ ...	+ 3·0719	+ 0·0064	− 0·021	+ 18·582	− 0·176	− 0·06	1789
142	8 Bootis η ...	+ 2·8616	− 0·0006	− 0·005	+ 17·837	− 0·199	+ 0·34	1821
143	93 Virginis τ ...	+ 3·0481	+ 0·0064	− 0·001	+ 17·568	− 0·222	+ 0·03	1829
144	R. P. L. 108 ...	+ 7·6012	+ 2·4111	...	+ 17·262	+ 0·557	...	...
145	16 Bootis α (*Arcturus*)..	+ 2·8131	+ 0·0004	− 0·080	+ 16·913	− 0·227	+ 1·98	1847
146	25 Bootis ρ	+ 2·5946	− 0·0015	− 0·009	+ 16·096	− 0·233	− 0·13	1869
147	R Camelopardi, Var. 1	− 5·0828	+ 1·0618	...	+ 16·062	+ 0·437	...	...
148	36 Bootis ϵ (*Mirac*) ...	+ 2·6240	− 0·0001	− 0·004	+ 15·386	− 0·252	− 0·00	1890
149	9 Librae α^2 ...	+ 3·3159	+ 0·0154	− 0·009	+ 15·134	− 0·324	+ 0·07	1894
150	W. B. E. XIV. 896 ..	+ 3·3748	+ 0·0141	...	+ 14·844	− 0·336	...	...
151	... ...	+ 3·3036	+ 0·0145	...	+ 14·438	− 0·340	...	...
152	43 Bootis ψ ...	+ 2·5834	+ 0·0010	− 0·015	+ 14·234	− 0·271	+ 0·01	1922
153	R. P. L. 111 ...	− 6·8051	+ 1·1664	...	+ 13·909	+ 0·709	...	...
154	27 Librae β ...	+ 3·2272	+ 0·0117	− 0·008	+ 13·526	− 0·353	+ 0·02	1934
155	R. P. L. 114 ...	− 22·3060	+ 7·5404	...	+ 13·030	+ 2·467	...	...
156	5 Coronae Borealis α...	+ 2·5297	+ 0·0023	+ 0·009	+ 12·247	− 0·297	+ 0·09	1973
157	24 Serpentis α ...	+ 2·9421	+ 0·0062	+ 0·008	+ 11·634	− 0·354	− 0·06	1990
158	R Serpentis, Var. 2...	+ 2·7639	+ 0·0043	...	+ 11·143	− 0·340	...	...
159	R. P. L. 115	− 10·3159	+ 1·5329	...	+ 11·026	+ 1·252	...	...
160	8 Scorpii β^1 ...	+ 3·4795	+ 0·0142	− 0·003	+ 10·161	− 0·441	+ 0·03	2034
161	R. P. L. 116 ...	− 12·2499	+ 1·7478	...	+ 9·857	+ 1·551	...	...
162	1 Ophiuchi δ ...	+ 3·1418	+ 0·0081	− 0·005	+ 9·427	− 0·408	+ 0·14	2065
163	21 Scorpii α (*Antares*)	+ 3·6695	+ 0·0150	− 0·002	+ 8·332	− 0·491	+ 0·03	2091
164	40 Herculis ζ ...	+ 2·2967	+ 0·0033	− 0·036	+ 7·137	− 0·316	− 0·41	2127
165	... ...	+ 4·5179	+ 0·0275	...	+ 6·653	− 0·624	...	...
166	27 Ophiuchi κ ...	+ 2·8567	+ 0·0044	− 0·021	+ 5·880	− 0·402	− 0·02	2156
167	T Serpentis, Var. 4...	+ 3·5475	+ 0·0093	...	+ 5·638	− 0·498	...	...
168	22 Ursae Minoris ϵ ...	− 6·3880	+ 0·3078	+ 0·009	+ 5·296	+ 0·897	+ 0·00	2201
169	R Ophiuchi, Var. 2...	+ 3·4410	+ 0·0077	...	+ 5·135	− 0·487	...	...
170	... ...	+ 4·4892	+ 0·0187	...	+ 4·590	− 0·638	...	...
171	64 Herculis α, Var. 1.	+ 2·7342	+ 0·0035	− 0·002	+ 4·426	− 0·391	− 0·03	2183
172	42 Ophiuchi θ ...	+ 3·6798	+ 0·0080	− 0·002	+ 3·965	− 0·528	+ 0·04	2189
173	55 Ophiuchi α ...	+ 2·7748	+ 0·0030	+ 0·007	+ 2·689	− 0·402	+ 0·22	2218
174	86 Herculis μ ...	+ 2·3697	+ 0·0025	− 0·024	+ 1·608	− 0·346	+ 0·75	2237
175	13 Sagittarii μ^1 ...	+ 3·5876	+ 0·0009	− 0·001	− 0·555	− 0·523	− 0·00	2284

Mean Positions of Stars for 1876, *January* 1*st.*

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
176	... ...	8·4	3	18	6	52·00	122	25	1·1	4	0·59
177	... ...	9·6	3	18	8	52·62	122	24	32·1	4	0·54
178	23 Ursæ Minoris δ ...	4·5	...	18	12	19·60	3	23	31·3	6	0·43
179	24 Ursæ Minoris	6·1	...	18	16	40·21	3	0	46·9	3	0·58
180	... ...	10·5	2	18	30	10·70	136	55	3·7	2	0·58
181	3 Lyræ α (*Vega*)	0·2	...	18	32	44·32	51	19	49·9	2	0·62
182	10 Lyræ β, Var. 1 ...	Var.	...	18	45	30·11	56	46	48·4	2	0·63
183	R. P. L. 131	6·5	...	18	55	11·74	3	27	0·8	5	0·40
184	17 Aquilæ ζ	3·1	...	18	59	42·55	76	19	9·6	7	0·61
185	25 Aquilæ ω	5·1	...	19	11	59·74	78	37	34·8	3	0·63
186	30 Aquilæ δ	3·5	...	19	19	14·65	87	7	50·2	3	0·65
187	52 Sagittarii h^3	4·6	...	19	29	9·51	115	9	18·0	4	0·64
188	50 Aquilæ γ	2·8	...	19	40	21·87	79	41	13·0	2	0·71
189	11 Vulpeculæ, Var. 1 ...	10·7	7	19	42	35·50	62	59	10·3	9	0·63
190	53 Aquilæ α (*Altair*) ...	1·0	...	19	44	44·01	81	27	26·4	1	0·73
191	60 Aquilæ β	4·0	...	19	49	13·40	83	54	3·3	2	0·70
192	6 Capricorni a^3	3·8	...	20	11	10·37	102	55	39·6	5	0·71
193	X Capricorni, Var. 7 ...	10·7	8	20	15	39·01	106	24	17·2	8	0·73
194	U Cygni, Var. 6	8·3	5	20	15	45·99	42	29	46·8	5	0·80
195	... ...	10·5	1	20	16	41·05	106	30	48·1	1	0·58
196	11 Capricorni ρ	5·0	...	20	21	47·10	108	13	19·2	5	0·69
197	R. P. L. 143	6·7	...	20	28	0·30	5	16	2·6	9	0·64
198	50 Cygni α (*Deneb*) ...	1·5	...	20	37	12·37	45	9	43·0	3	0·78
199	32 Vulpeculæ	5·1	...	20	49	16·49	62	24	47·6	8	0·75
200	64 Cygni ζ	3·5	...	21	7	39·58	60	16	51·4	8	0·78
201	... ...	10·6	4	21	8	57·13	110	47	7·3	4	0·77
202	22 Aquarii β	3·1	...	21	25	1·71	96	6	56·6	15	0·78
203	8 Pegasi ε	2·4	...	21	38	5·69	80	41	33·5	12	0·78
204	16 Pegasi	5·0	...	21	47	25·19	64	39	28·3	3	0·76
205	34 Aquarii α	3·2	...	21	59	24·81	90	55	17·3	6	0·77
206	43 Aquarii θ	4·3	...	22	10	17·36	98	23	58·6	4	0·80
207	R. P. L. 150	5·5	...	22	22	53·66	4	31	2·9	9	0·56
208	R. P. L. 151	6·9	...	22	23	19·42	4	24	10·3	5	0·46
209	62 Aquarii η	4·2	...	22	28	58·98	90	45	21·9	2	0·76
210	... ...	7·4	2	22	46	27·74	130	4	43·4	2	0·74

178.—R. P. L. 125.
179.—R. P. L. 128.
183.—Carrington 2882.
195.—Comparison star for Hestia in 1865.
197.—Carrington 3128.
207.—Groombridge 3820.
208.—Groombridge 3824.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
176	... ...	+ 3·9209	+ 0·0003	...	− 0·601	− 0·572	...	...
177	... ...	+ 3·9203	− 0·0001	...	− 0·776	− 0·571	...	...
178	23 Ursæ Minoris δ ...	− 19·4515	− 0·3594	+ 0·026	− 1·078	+ 2·833	− 0·04	2395
179	24 Ursæ Minoris ...	− 22·2596	− 0·6432	+ 0·067	− 1·457	+ 3·240	+ 0·02	2417
180	... ...	+ 4·4893	− 0·0084	...	− 2·633	− 0·648	...	...
181	3 Lyræ α (*Vega*) ...	+ 2·0132	+ 0·0016	+ 0·017	− 2·855	− 0·290	− 0·30	2341
182	10 Lyræ β, Var. 1 ...	+ 2·2139	+ 0·0015	− 0·001	− 3·955	− 0·315	− 0·02	2369
183	R. P. L. 131	− 18·4621	− 1·5300	...	− 4·783	+ 2·617	...	...
184	17 Aquilæ ζ	+ 2·7578	+ 0·0003	− 0·003	− 5·166	− 0·387	+ 0·09	2405
185	25 Aquilæ ω	+ 2·8165	− 0·0003	− 0·001	− 6·197	− 0·388	− 0·03	2432
186	30 Aquilæ δ	+ 3·0092	− 0·0018	+ 0·015	− 6·797	− 0·410	− 0·09	2451
187	52 Sagittarii h^3 ...	+ 3·6531	− 0·0102	+ 0·002	− 7·607	− 0·490	+ 0·01	2478
188	50 Aquilæ γ	+ 2·8519	− 0·0011	− 0·001	− 8·504	− 0·373	− 0·01	2511
189	11 Vulpeculæ, Var. 1.	+ 2·4576	+ 0·0011	...	− 8·680	− 0·319	...	...
190	53 Aquilæ α (*Altair*)..	+ 2·8920	− 0·0014	+ 0·035	− 8·849	− 0·374	− 0·38	2524
191	60 Aquilæ β	+ 2·9453	− 0·0020	+ 0·001	− 9·200	− 0·378	+ 0·47	2538
192	6 Capricorni a^2 ...	+ 3·3302	− 0·0084	+ 0·002	− 10·862	− 0·403	− 0·02	2595
193	X Capricorni, Var. 7..	+ 3·3990	− 0·0101	...	− 11·189	− 0·407	...	...
194	U Cygni, Var. 6 ...	+ 1·8615	+ 0·0002	...	− 11·197	− 0·220	...	...
195	... ...	+ 3·4000	− 0·0103	...	− 11·264	− 0·405	...	...
196	11 Capricorni ρ ...	+ 3·4308	− 0·0115	− 0·003	− 11·630	− 0·403	+ 0·01	2626
197	R. P. L. 143	− 8·5092	∓ 1·2745	...	− 12·069	+ 0·996	...	...
198	50 Cygni α (*Deneb*) ...	+ 2·0435	+ 0·0021	− 0·000	− 12·702	− 0·226	− 0·00	2679
199	32 Vulpeculæ ...	+ 2·5557	+ 0·0026	− 0·002	− 13·502	− 0·270	+ 0·00	2709
200	64 Cygni ζ	+ 2·5509	+ 0·0038	− 0·002	− 14·646	− 0·248	+ 0·07	2760
201	... ...	+ 3·4167	− 0·0149	...	− 14·724	− 0·333	...	...
202	22 Aquarii β... ...	+ 3·1618	− 0·0071	− 0·001	− 15·642	− 0·282	+ 0·00	2797
203	8 Pegasi ε	+ 2·9451	− 0·0005	+ 0·001	− 16·331	− 0·242	− 0·01	2835
204	16 Pegasi	+ 2·7261	+ 0·0052	− 0·001	− 16·791	− 0·210	+ 0·00	2864
205	34 Aquarii α	+ 3·0831	− 0·0041	− 0·001	− 17·342	− 0·219	− 0·00	2890
206	43 Aquarii θ... ...	+ 3·1631	− 0·0075	+ 0·006	− 17·800	− 0·205	+ 0·02	2929
207	R. P. L. 150	− 3·8848	− 1·2163	+ 0·052	− 18·281	+ 0·241	− 0·04	2993
208	R. P. L. 151	− 4·0373	− 1·2843	+ 0·025	− 18·297	+ 0·249	− 0·01	2997
209	62 Aquarii η	+ 3·0791	− 0·0031	+ 0·006	− 18·494	− 0·166	+ 0·11	2979
210	... ...	+ 3·4268	− 0·0317	...	− 19·031	− 0·150	...	...

Mean Positions of Stars for 1876, *January* 1*st*.

Number.	Star.	Magnitude.	Estimations.	Mean Right Ascension.			Mean Polar Distance.			Observations.	Fraction of Year.
				h.	*m.*	*s.*	°	′	″		
211	... ...	9·5	4	22	48	9·24	128	54	·0	4	0·74
212	54 Pegasi α (*Markab*) ...	2·6	...	22	58	35·04	75	27	41·3	1	0·78
213	6 Piscium γ	3·8	...	23	10	44·20	87	23	41·9	1	0·83
214	8 Piscium κ	5·0	...	23	20	34·46	89	25	24·6	1	0·83
215	R. P. L. 158	5·7	...	23	27	49·68	3	22	37·8	2	0·31
216	17 Piscium ι	4·3	...	23	33	34·31	85	2	45·1	2	0·87
217	δ Sculptoris	4·6	...	23	42	27·80	118	48	58·2	1	0·90
218	2 Ceti	4·6	...	23	57	23·07	108	1	35·5	3	0·95

215.—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Right Ascension.			In Polar Distance.			Number in Auwers-Bradley.
		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	
		s	s	s	"	"	"	
211	... ...	+ 3·4049	− 0·0300	...	− 19·077	− 0·146	...	...
212	54 Pegasi α (*Markab*).	+ 2·9805	+ 0·0056	+ 0·003	− 19·338	− 0·107	+ 0·03	3050
213	6 Piscium γ	+ 3·0592	+ 0·0005	+ 0·049	− 19·593	− 0·087	− 0·02	3082
214	8 Piscium κ	+ 3·0699	0·0000	+ 0·004	− 19·759	− 0·069	+ 0·10	3116
215	R. P. L. 158	− 0·0977	− 0·5315	+ 0·084	− 19·857	+ 0·011	− 0·00	3147
216	17 Piscium ι	+ 3·0588	+ 0·0030	+ 0·023	− 19·921	− 0·042	+ 0·44	3148
217	δ Sculptoris	+ 3·1284	− 0·0161	+ 0·009	− 19·995	− 0·026	+ 0·10	Stone
218	2 Ceti...	+ 3·0771	− 0·0080	− 0·000	− 20·053	+ 0·004	− 0·01	3204

217.—Proper motions from *Stone's Cape Catalogue*.

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